

# International Abstract of Surgery

SUPPLEMENTARY TO

# Surgery, Gynecology and Obstetrics

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### GYNECOLOGY AND OBSTETRICS

T I LOAD BELL I I FUNNED BISHAON ABRAHAM & BRAUER BERTON CLARE JR LOWARD L CORNELL ROLAND S CRON CARE II DAVIS CHARRES F DUBOTS HARRY W FINE SAMUEL J FOGELSON & H GLADDEN JR I LEOPOLD GOLDSTEIN ROBERT M GRIER AIBERT W HOLMAN W O JOINSON E L KING AFRICE H KLAWANS HARLYS B VATHIEWS ALICE F WAXWELL HARRY M NELSON GFORGE W PHPLAN ANTHONY F SAVA GOODRICH C SCHAUFFLER DOWALD G TOLLFRON MAGNUS P URNES ALERT W TOLLBERT

#### INTERNATIONAL ABSTRACT OF SURGERY

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#### ABSTRACT UDITORIAL STAFF-CONTINUED

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I LIVEN J BER HEISFR WALT RP BLOUVT WILLIAM ANTHUR CLARK PAUL C COLO VA. H FARLE CO WELL MAURICH L DALE R  $\tau$  V FO in  $\tau$  Chest C Guy George C HPVSEL PR DERICK A JOSTES ROBERT C LOVERON RUDOLFN S REICH A  $\tau$   $\tau$  P SAVA

## RADIOLOGY AND PHYSICAL THERAPY

Wilbur Bailey Clare ce V Bates an Gertrude Beard C D Haagens v Adolph H reung Charles H Heacock A James I arkin

## SURGIRY OF THE EAE

THOMA D ALLEN S OFF A DUR GEOR P MCAULT LF II L McCoy AT G L WESCOTT

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# International **Ab**stract of Surgery

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## CONTENTS

I	Authors	11
IL.	Index of Abstracts of Current Literature	111-711
III	Ab- racts of Current Literature	1 77
17	B bliography of Current Literature	78-1C-

Educated Communications Should Be Sen. to Franklin H. Martin, Educy 54 East Eric St., Chicago Educated and Bonness Offices 54 East Eric St., Chicago Tilmons U. S.A.

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Ackman 1 D 24
Ackman 1 D 25
Ackman 1 D 25
Ackman 2 D 25
Ackman 3 D 25
Ack

# CONTENTS-JANUARY, 1931

## ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		FECT L and PIETRANTONI L Roentgen Findings in Laryngeal Tuberculosi	9
MILLS L and JEANCON E C Unrecognized Mag netic Intra Ocular I orei n Bodies and Their Legal Aspects	1	SURGERY OF THE NERVOUS SYSTEM Brain and its Coverings Cranial Nerves	
TERRIEN F Optic-Atrophy and Hæmatemesis  WILDER W H Some Phases of Secondary Glaucoma  ELSCHNIG A Keratoplasty  PARKER W R and CULLER A M Lipremia  Retinalis	I I 2	PANCOUST H K and FAY T Encephalo raphy as the Roentgenologist Should Understand It An Attempt to Standardize the Procedure CROTHERS B VOOT E C and ELEY R C Encephalography in Ca ex with Fixed Lesjons of the	10
COLEMAN C C Brain Abscess A Review of Twenty Eight Cases with Comment on the Ophthalmological Ob ervations	11	Brain  COLEMAN C C Brain Abs ess A Review of Twenty Eight Cases with Comment on the Ophthalmological Observations	10
Ear		STAMMERS F A R A Study of Tumors and In	41
HAGEAL E W Otosclerosis	2	flammations of the Gasserian Ganghon	11
NASH C S A Study in Otosclerosis	3		
Sourdiske M On the Surgical Treatment of Otosclerosis		Spinal Cord and Its Coverings	
MEURMAN Y The Anatomy of the Aqueductus Lochlew and Remarks Regarding Its Physiology	3	BECK C Chordotomy for Intractable Pelv c	11
MEURMAN Y Diffuse Suppurating and Necrosing Inflammations of the Internal Lar with Par	3	DELHERM L and Morel Kahn M The Treat ment of Syringomy cha by Roentgen Therapy Fraser I A Cystic Dermoid Tumor of the Spinal	12
ticular Reference to the Aqueductus Cochleæ	4	Cord	12
BUZOTANU G Research Relative to the Mechanism of Production of the Barany Caloric Test	5	KORTZEBORN A Chronic Adhesive Spinal Lep- tomeningitis as a Condition for Operative Treatment	12
Suits J M A New Operation for Chronic Purulent Mastoiditis	5	Sympathetic Nerves	12
Nose and Sinuses		HENCH P S HENDERSON M S ROWNTRLE L	
ROSENWASSER H Plasmocytoma of the Nasal Cavity	5	G and ADSON A W The Treatment of Chronic Infectious Arthritis by Sympathetic Ganghonectomy and Trunk Resection	57
Mouth		Miscellaneous	
DORRANCE G M Con enital Insufficiency of the Palate	5	IASON A H LEDERER M and STEINER M Chan es in the Spinal Flu d Following Injection for Spinal Amesthesia	<b>r</b> 3
Pharynx		tor opens resources	+3
VIALLE Le Coo and Ronchèse Mixed Chancre of the Tonsil	7	SURGERY OF THE CHEST	
		Chest Wall and Breast	
Neck		WARLEN S L A Roentgenological Study of the Breast	٠.
BROWN A The Influence of Hyperthyro di m upon	7 8	BRANCATI B Fat Necrosis of the Breast	14
the Secretion of Free Hydrochloric Ac d CLUTE H M Operative Mortal ty in Hyperthy	ŏ	Trachea, Lungs and Pleura	
ROEDER C A and KILLINS W A A Th rd Type	8	DEBENEDETTI E The Pleuropulmonary Complications of Abdominal Diseases Postopera	

5

25

26

8

3

3

3

3

3

3

33

33

34

34

34

fHyp s 1 m

PEROTT G Attempts at th S rg 1C re f E

TINDEW Shote Poetu or S Clid Act Clid mofth Po

d NORTH J P A t P

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24

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24

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Rontg lg 1 Sg f G t j j I fect 2 WEISS A G d HUBST C Th P thoge SAND RS P L Th I d Res lt f 500 C es f f Gast d d l Ulc Ch l y t tomy 2 CHIRA M JE NDEL 1 nd SALMOV 1 Cl cal Explo at f th Pa nd th I ta eno I j ct on fP i d S cret Ko JETZNY G L Th f flamm try B f the D 1 pm t f Typ cal Ulc f th St m h nd D d m 23 MOUZON J P tal P cre t ctomy in th T SAUND RS E W ABct olg 1 dCl 1 ment fC dt

St dv f G t Ul d Luqu r G The Suge l Tet PALCHET V et fUlrs fth Sp Th d f th Stm h (Goo R cto) ACKMAN F D M ltpl Ad nop p ll m t of th Stm h with the R port I C se Sh w g Vry gDg fM lg

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## INTERNATIONAL ABSTRACT OF SURGERY

Petridis P Egyptian Splenomeraly Warner E C Advanced Bants Disease Treated Successfully by Ligature of the Splenic Ven Wright J H and Stevenson E M K A Case of Primary Sarcoma of the Splenic Problems Presented by the Diabetic  Miscellaneous Been C S Chordotomy for Intractable Pelvi Pain Morison J M W Diaphragmatic Hernia	35 35 35 68	BROUMA M The Test of Labor in the Management of Cases of Contracted Pelvs DIMILIA L A Notes on the History and Mech anism of Forceps Preference for Models with Uncros ed Blades AMMON E VON The Mortality of Vaginal and Abdominal Methods of Delivery in Placenta Previa Massur R Joint Malformations of Obstetrical Origin  Description of Malformations of Distortical Origin  Pureperium and Its Complications Lehbory E The Treatment of Postoperative and
Uterus SILYMUND H The Dependence of the Uterune Musculature upon the Lunctional Phases of		Puerperal Thrombophlebits with Ambulatory Plastic Supportive Handa*es and Its Social and Medical Importance
the Ovary Experimental Observations on Animals I The Reaction of the Uterine Musculature Durin the Menstrial Cycle II The Reaction of the Uterine Musculature During Pregnancy and the Purepernum in the Rat PUENTE J J Syphilis of the Cervix of the Uterus	37 37	Adrenal Kidney and Ureter  DENCINU D and PRIEUR R Reflex Heus in the Course of Reno Ureteral Lithnasis  LICHTENSING A VON The Surgical Treatment of Renal Insufficiency  4
WATEN'S R E Hydrid form Mole and Chorson epithelioma AReport of Thirteen Cases BONANNO A M The Bacterial Flora in Carcinoma of the Uterus After Radium Therapy BÉCOUIN. Radical Abdominal Hysterectomy for Cancer of the Cerix Uter. Results After from Ten to Twenty Five Lears	38 38 38	Renal Insufficiency 4 LISEVORATY D N Hydronephrosis Due to Oh struction of the Renal Pelvis by One of Two Wain Renal Arteries 4 Lepourge C The Treatment of Pyelitis and Pyelonephritis 4 Maraf C P The Differential Danosi and
Adnexal and Periuterine Conditions WATKINS R F and WILSON W M Pr mary Car cinoma of the Fallopian Tubes WEYER R Tubular (Testicular) and Solid Forms of Andricoblasioms of the Ovary and Their Relationship to Masculation	38	Modern Treatment of Pyelonephritis  Jone J L A Study of Staphyloco cal Disease The Renal Cases  Marin J Mistales in the Diagnosis of Renal Tuberculosis  Frader M The Present Day Surgical Treatment of Indicated Renal Lithrasis
BABES and PANTE LAZARESCU The Origin of Kru kenberg Tumors of the Ovary  Miscellaneous  Cannon D J Recent Advances in the Physiology	40	Bladder Urethra and Penis COFFEY R C The Radical Treatment of Cancer of the Bladder 4
OBSTETRICS  Pregnancy and Its Complications  Anurel E The Death of One Fetus in Twin Pregnancy  SCHEWLET F Spontaneous Expulsion of a Necrotic This of a Fetus Through the Abdominal Wall in an Fixta Uterine Pre nancy  KATSUYA S The Reticulo Endothelial System in Obstetrics and Gynecolo y	4 4 42 42	Miscollaneous  Wolfbarst A L and Hirsch I S Intrivenous Urography Kretschwer H L Intravenous Urography 44  Hymay 1 Intravenous Urography in the Diagnosis of Urolo ical Diseases in Childhood  Paradis J The Treatment of Gonorrhora with Acridin Salts  Thouspow R Urnary Lithiasis A Report on Cases Occurring During the Years 1910 to 1929 Inclusive
Labor and Its Complications  MARMASSE J Acute Appendicitis as a Sequela of Labor  Gwarmers J T Obstetrical Malgesia A Furthe	27	SURGERY OF THE BONES JOINTS MUSCLES TENDONS Conditions of the Bones Joints Muscles Tendons Etc Grechicates C F and Copelium M M Tumors
Study Based on More Than 20 000 Cases	43	of the Grant Cell Group A Pathological Lntity 5:

Blood Vessels

Ven s Pres

GRELLETY BOSVIEL, P Th \al

5

52

53

SURGERY OF BLOOD AND LYMPH SYSTEMS

fM as n th th C rse of Art n 1

vı

Ongin

MASSART R Joint Malform tions of Obstetrical

KEV J A Tra matic A thritis and the Mecha ical I ctors in Hypertroph c Arthritis

Sr KARTAL Ch ndromatos f the Joint Capsul

KING F J S On Some 1 pects of the P tholory f	- 33	P cum th rax	
Hypertroph Charcot s J ints	53	EISENDRATH D Y Hydro ephrosis D to Ob-	5
Mo TO C B Osteog c Sarcoma of the Hu m rus A Re ew of th L terature d a Case	••	tru too of the Renal Pel as by O f Two	45
PLATT II Cysts I the Lo Bones of th IIa d d Foot	53	P nartentis K ssmaul's Disease	66
CORDES E Th De el pme t of S bch dral Osteo ecrosis \ecrosis of the Semil Bo e	54	LE HOLZ E The 1mb lat ry Treatment f P t perati d Puerperal Thrombophleh its with Ha ti S pporti e B d ges and Med cosocial	
WAG ER L C An Intra Art cular Endoth hal Tumor A is n from the Syno ral M mbrane	ss	Suren ack R. II d Werre I C The Elimina	66
CAMURATI M Co e tal Pseuda throsis f the Tbia	55	to I Pain Oblit rati e Vascular Disease f th Lower Extremity A Techniq e f r Vicol I I ject o f the Sensory Vives of th Low	
Pow ET T Tube culosis of th Cal cum Childre	56	Leg Zanagor F The S rg cal a d Phys 1 meal 1 1	66
	_	of Art no en Ana tomosis	6
Surgery of the Bones Joints Muscles Tendons		Blood Transfus on	
DORRA CE G M O teopenosteal Bo e Grafts HE CH P S HE DERSON M S ROWNTREE L G a d ADSO A M The Treatm t of Chro	\$7	Zalewski F An Est sie \ ray B m f the Skin C ed by Repeated Blood Transf	7
I fecti s Arthritis by Sympathet Ga l o ectomy and Trunk Resectio	57	FIESSINGER \ Def e B t n pexy Sep- ticamia	76
LANCE I T nd n Transplantat MASSART R. T berculos s f th Sh ulder d	\$8	Reticulo-Endothelial System	
Arthrodesia	\$8	K tsuya S Th Reticulo-1 d th hal S at m	
DANDY W. F. In Operation f the T c tm t f  Spasmodic T tieollis	59	Obst tnes d Gynecology	42
MATHIEU P Repair S rgery f th Hip \ERCOZ Coxalma Extra Articular Arthrodesis	59 60	SURGICAL TECHNIQUE	
PITZEN P The Treatment f C xa Vara	60	Operative Surgery and Techniq e Postopera Tr tment	tive
GOIBAL, A. nd MARCHAND L. Thotareal inthro- esis I dications Techniq es Results	61	DEBE EDETTI E Th Pl ropulm nary Complica ti of Abd minal Diseases. Post perat e	
Fractures and Dislocations		Pulm nary Complicati ns	14
RADASCH H. E. S nil ty f Bo a d Its R lati		Pu ture d Aspirati	65
to Bone Repair	6	Bazzy A 'T The S rg cal Probl ms Presented by the Dubeti	68
POELCHEN The T catment of Fract res I the Upper I'xt mity by Act e E te n w thout	63	Sackij A The M croft ra of Operate e W nds	69
JUNARA E Fra t re or D tachment by Avuls of the I ternal Condyle f the Hum rus with P e the I ternal Condyle f the Hum rus with P e	٧3	Antiseptic Surgery Treatment of Wounds and Infections	
trati f th Fragme t into the I tra Articular Spac Th Neces ty for Imm d te Operati e T eatm t by Osteosynthesis	63	Prostole to E N w Point I V ew in S rgical Treatm nt Does Mechanophys therapy Suffice	69
CHRISTOPHER, F C mpress on Fractures of the Spine. Late Results in C ns reats e T eatm t	63	Anæsthes a	
of Uncomplicated Cases  LANCE M E d Res lts of the N Op ratu T eatm nt of Congenital Dislocation of th Hip	64	Cha ges the Spinal Flu d Follow I jecti n for Spinal Anzesthesia	3
MASSART, R. The S g cal T eatment of reglected Painf I Co genital Dislocati ns f th Hip by	-	GNATHMEY J T Obstet cal Analgesia A F ther Study Based on More Than ooo Cases	43
the Bifurcati n Op ration with the Format on f a Buttress	64	Culat re D r g Narcosis. Studes of Thur If ha o nd th P sublices f I fl g	
LASSERRE C O teoplast B tt es g of the H p			٥

Radium

Koster H, and Weintrob M Spinal Anæsthesia Fatalities

Fatalities	71	GORDON WATSON SIR C LACASSAGNE CADE S LOCKHART MUMMERY J P and Others Di	
PHYSICOCHEMICAL METHODS IN SURGERY		cussion in Radium in the Treatment of Car cinoma of the Rectum and Colon	28
Roentgenology		BONANNO A M The Bacterial Flora in Carcinoma of the Uterus After Radium Therapy	38
FECT, L and PIETRANTONI L Roentgen Findings in Laryngeal Tuberculosis	9	SIEVERT R M The Intensity of Gamma Rays at the Surface and in the Region Immed ately Sur	J-
PANCOAST H L and TAY T Encephalography as the Roentgenologist Should Understand It An Attempt to Standardize the Procedure	10	roundin Radium Needles	7
CROTHERS B VOGT E C and ELEY R. C Encephalography in Cases with fixed Lesions of the Brain	10	MISCELLANEOUS	
DELHERM L and MOREL KAEN M The Treat ment of Syrin, omyelia by Roentgen Therapy	12	Clinical Entities—General Physiological Condition	ts
WARREN S L A Roent enological Study of the Breast	14	Bruni A The Influence of Glucose on the De velopment of Fischer's Phenomenon	74
GILLIORE W. H. The Pathological Thymus in Children from a Roentgenological Standpoint	18	MASON J B Desmoid Tumors SÉNÈOUE I and GRINDA I P Sacrococcygeal	74
CAMP J D Further Observations on the Direct	10	SÉNÈQUE J and GRINDA J P Sacrococcygeal Chordomata	74
Roentgenolopical Sign of Gastrojejunal and Jejunal Ulcer	22	OERTEL H On the Mechani m of Cancer Development	75
Dall Acqua V The Roentgen Appearance of the Mobile Duodenum	25	WRIGHT W M and WOLF C G L The Serolos ical Diagnosis of Cancer Part I	75
Wolbarst A L and Hirsch I S Intravenou Uro raphy	48	Kerner Samarina S Experimental Treatment of Carcinomatous Mice by Cytotherapy According	
KRETSCHMER H L Intravenous Urography HYMAN A Intravenous Uro raphy in the Dia nosis	49	to the Method of N Y Kouschtalow	75
of Urological Diseases in Childhood	49		
GUGGISBERO H The Influence of the Roentgen Rays on Offspring	72	General Bacterial Protozoan and Parasitic Infects	ions
WIDMANN B P and Weatherwax J L A Clin ical Evaluation of Radium and Roentgen Ther	,-	D HÉRELLE The Phenomenon of Bacteriophagy and Its Biolo ical S mificance	76
apy in Advanced Cancer with Various Combina tions of Wave Lengths	7	FIESSINGER N Defen ive Bacteriopexy in Sep	76
ZALEWSKI F An Extensive X ray Burn of the Skin Cured by Repeated Blood Transfusions	72	TALICE R V Three Years of Pyrevotherapy with Treponema Hispan cum in Uruguay	77

## BIBLIOGRAPHY

Surg ry of the Head and Neck	Genuto-Unnary Surgery
H ad Ey F No and S Mouth Pharyn Neck	78 Ad a 1 k-dn y a d Uret 78 Bladde U eth a and Pe 79 Ge tal Org 70 M la co 80 80 80 Surgery of the Bones J nts Muscles Tendon
Surgery of the Nervous System  Br and Its C er gs Cran 1N rv  Sp and C rd d Its Co en g  P ropheral N rv s  Symp thet c N rv c  M scella co s	C dt softhe B es Joats Muscl s T nd Etc.  St Surg y fthe Bo es Joats M scl T d n Etc.  Frat e a d D Sl catt  Orth pedics in C n al  St Surgery of the Blood and Lymph Systems  Surgery of the Blood and Lymph Systems
Surgery of the Chest Chest Wall and B e st Tr chea L gs and Pl ur	Blood Vess ls Blood T ausí 9 Blood T ausí 9 S 1 ymph Gland a d Lymphat c Vess ! 0 83
(Esophagus d Med a ti um M se lla eous	84 Srgical Technique 84 Op att e Srg ry nd Teh qu Pot prat e Teatment 1 tepte Srg ry T tm nt of No ds a d
Surgery of the Abdomen Abd m 1\\ ll a d Per to e m G to I test 1 Tract L er G ll Bl dd r P n a 1 Spl n M scella co	Infc to I S A 7-sthest I S S g call trume ts d App rat S 9 Physicochemical Methods in Surgery
Gynecology Ut rus Ad rula d P rute e C d to E t n I G n talin V sc llancebus	Roc tg ol gy 89 Ral um 9 M.cellaneo s 90 M scellaneous
Obstetrics P g a cy and Its Compl t s I bor d It C upl cat Purp m d Its C mpl cat Vewbo	Clinical Fautes—Gen 1 Physiol g cal C add to Gen 1 B cteral My out d Prot o 1 fe to D ctles Gla 1 0 0 0 Ctles Gla 1 0 0 0 Experime tal Su gery 0 1 He tals M d call Fd cata and H st ry 0 1 Med call f respuée

# INTERNATIONAL ABSTRACT OF SURGERY

JANUARY 1931

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

EYE

Mills L and Jeancon E G Unrecognized Mag netic Intra Ocular Foreign Bodies and Their Legal Aspects Arch Ophth 1930 iv 194

The authors report on twenty one cases of mag netic foreign body in the eye in which the nature of the condition was not recognized by the specialist who first examined the eye. They cite legal decisions to warn ophthalmologists to be on their guard in such cases. They emphasize that a roentgeno gram should he taken of every penetrating wound of the eye even such wounds in the eyelid. Insurance companies are very anxious to have a roentgen re port negative or positive especially if the history is the least suspicious.

In the authors opinion failure to recognize foreign bodies in the eye is more common than is generally supposed. No accident is too trivial to be the cause of such foreign hodies. According to recent legal decisions failure to use the \times ray in the examination of an injured eye found later to have contained a foreign hody constitutes negligence. \times ray examination is our most dependable means of detecting intra ocular foreign hodies. Prompt diagnosis and operation greatly improve the prognosis.

THOMAS D ALLEN M D

Terrien F Optic Atrophy and Hæmatemesis (Atrophies optiques et hématemèses) Presse n ed Par 1930 v. vviil 953

Terrien reports the case of a woman of fifty eight years who had severe hematemess that left her very weak. Nine days later her vision decreased suddenly and the next morning she woke up completely hlind. Both eyes showed moderate mydriasis and did not react to light or convergence. Both dik were white and showed the characteristics of primary atrophy. The retural arteries were slightly filliform. There were no signs of syphilis or takes.

A number of cases of visual disturbance after loss of blood have been reported. In most of them the

condition followed hamatemesis or metrorrhagia in a very few it occurred after loss of blood from trauma. One factor responsible for the hindness is probably the poor general condition of persons with hamatemesis or metrorrhagia. The immediate cause is probably ischemia which generally is associated with vasconstruction of the retual ar teries. The lesions resemble those seen in quinine amblyona. The prognosis is unfavorable. In more than half the cases the hindness is permanent. Im provement results in only 38 per cent of the cases and a cure is obtained in only about 12 per cent.

Treatment should be given to prevent recurrence of the hæmorrhage as in most cases the hlindness comes on after repeated bleeding rather than after a single severe hæmorrhage. After the visual disturhance has begun the treatment should he di rected toward increasing the arterial pressure and the strength of the heart heat and decreasing the tonus of the eye which increases the ischæmia of the retina by compressing the retinal vessels. The intravenous injection of physiological salt solution is a good means of raising the arterial pressure. The tonus of the eve may he lowered hy myotics Terson recommends the instillation of dionin into the con junctival sac to hring about vasodilatation. An terior sclerotomy has also heen recommended to decrease the normal tonus of the eye Subcutaneous injections of acetylcholin are of value to reduce the general blood pressure through elective dilatation of the arterioles They have been known to double the caliber of the central artery of the retina and to improve the visual field greatly. In the author's case they were of no benefit hut were not tried until the optic atrophy had been present for three months AUDREY G MORGAN M D

Wilder W H Some Phases of Secondary Glau coma An J Oplih 193 VI 1 681

Secondary glaucoma may he mechanical hio chemical or inflammatory. The author discusses particularly the second type Cases of mild serous initis or cyclitis may show in creased tension produced by the secretion of aqueous having a greater viscosity than normal aqueous. The treatment of such cases is d scussed. Homatropine is suggested as a mydratic as its effect may be more easily counteracted by myotics if the necessity arises with the formation of posterior swinching belogiau cosan may be tred. Pilocarpine is superior to esserine ast causes less irritation of the iris. When operation she comes necessary a LaGrange or an iris inclusion operation gives better results than trephination.

Elschnig A keratopi sty A ch Oplik 193 1

SAMUEL A DURR M D

Of 150 cases in which keratoplasty was done for levium after a burn or ideration improvement in vision resulted in 25 per cent. Of cases of interstitial keratitia improvement in vision resulted in 31 per cent. Of cases of interstitial keratitia improvement in vision resulted in 31 per cyst. Cases of visid all type-chie better in 31 per cyst. Cases of visid all type-chie better in 31 per cyst. Cases of visid all type-chie better in 31 per cyst. Cases of visid all type-chie better in 41 per cyst. Cases of vision and the cases of patients under fourtient years of age. It should never be attempted sooner than one year after all disease processes in the cornea have complictly subsided and even then not before the eye has been given several months of pre operative treatment.

As the transplantable material may be obtained from the eyes of young as well as old persons with normal corness it makes no difference whether the remaining natheror segment is normal or pathologically changed or whether the eye of the donor reveals glaucoma or hypotension. The author has compared the blood of the donor and recipient for hemolysis with this been unable to correlate the results as regards the prognosis in the same and different blood groups.

Pa ke W R and Culler A M Lipæmia Reti n lis Am J Ophih 93 573

Parker and Culler review thirty eight cases of plasma retinals two of them their own. Eighty say per cent of the patients were makes ranging in agreem nine to fifty cars. The condition occurs as a rule in young diabetics because they have a less efficient fat metabolism than older persons. The liparmia can be recognized ophthalmoscopically when the blood fat falls to 2 per cent the appearance of the findulus returns to portnal.

In thirty five of the thirty eight cases reviewed there was evidence of acidous Apparently andos a is a p ercquisite of the condition Probably no disease other than diabetes uncomplicated by treatment gives rise to a l paint as o severe as to be recognized ophthalmoscopically

Of eighteen patients not treated with insulin one recovered and of fifteen treated with insulin one died

Lipæmia retinalis does not alter the prognosis of the diabetes in which it occurs

LESLIE L McCox M D

EAR

Hag ns E W Ot sel sis t h Ot I y g l

larious theories have been advanced as to the causal factors and the de elopment of the focu in otoscleros s It is known that the condition fre quently occurs in several members of a family and that females are more frequently attacked than males So far as the author is aware the youngest child in whom foci have been found was about one year of age. In the ears of embryos sectioned by Hagens no evidence of foci was een. According to o e theory of osclerosis is due to an inherent defect of the ear mechanism or a congenital infe jority of the ear However no microscopic changes supporting this theory have been found. According to another theory the foci develop from remnants of em bryonic tissue It has been suggested all o that the connective tissue in Co zolino a zone is the starting point of the focus but this assumption do s not explain how foci develop in other parts of the petrous bone

The possibility of the development of the foei from cartilaginous remnants is ot i terest. Se cral of the foci in the sections studied by the author appeared to be closely related to or actually touched the remnants. However eartilage remnants were found in regions in which foci are di covered ra cly if at all and remnants have been seen in many adult temporal bones showing no foer Accordingly the importance of the relationship between cartilaginous remnants and the foci is not casily settled. It has been suggested that the foer may develop where ossification occurred last Sections of the ears of embryos newborn infants and older infants ex amined by the author have shown that the regions which are frequently cartilaginous when all el e is ossified include in add tion to Cozzolino s zone the remons behind the vestibule in the posterolateral and posteromed al portions of the petrous hone

The various factors which have been suggested as exciting causes of the de dopment of foci include vascomstract on of the vessels in the petrous bo e enous stasis chroni locil information and otheron clocal infection. Spirits pregnancy glands of i ternal secretion vascular conditions tubured by the confection spirits pregnancy glands of i ternal secretion vascular conditions tubure losis a diet lacking in vitamins and blue adems with fing le bones. Those who are opposed to the view that chromic infection may be reposon ible call attent in to the lack, of evidence of infection in the sections such as the presence of round cells and plasma cells. It is possible box ever that a previous infection may be evil the declaration of the conditions of the condition of the conditions of

With regard to the development of the foci after they have appeared there are two main theories. The theory most generally accepted is that normal hone is absorbed and then replaced by new vascul r bone which later becomes denser. According to the other theory the focus is a tumor ike formation that destroys the normal bone as it develops If the first theory is correct we might expect to find evidence of absorption of the normal hone in the region of the focus. However such evidence is definitely lacking in some foci and indistinct in others In the sections showing possible changes which have been seen by the author the bone adia cent to the focus appeared rarefied. In the absence of osteoclasts the most plausible theory is that the alteration was the result of a chemical action. In several of the foci there was a crevice like gap or fracture line between the edge of the focus and the adjacent bone. This was no doubt an artificial gap but it perhaps indicated a difference of chemical composition between the bone of the focus and the bone next to it The development of the vascular stage was prominently shown in most of the foci and in the bone of one patient the denser older stage seemed to be presented

In the vascular foce a fair number of osteoclasts and osteoblasts were seen. The latter were situated at the bony edges lining the spaces and frequently a pink staining layer of bony tissue was noted just underneath. It seems possible that if this hone building process were to keep up for a period of years the tissue would gradually become more dense and the spaces smaller until finally a dense

tissue would result

The view that the focus is tumor like bas seemed plausible because of the frequent lack of evidence of a change in the bone near the border of the focus However the foci do not simulate ordinary tumors as they do not have a tumor cell common to them In the author's sections the most characteristic evidence of advance seemed to be finger like vascular projections extending from the focus into the adjacent bone. In some instances these were covered by several rows of blue staning cells with canaliculi

It is apparent that the focus could enlarge hy gradually throwing out tentacles into the adjacent hone and slowly replacing it. The adjacent bone would be prepared probably by a chemical action. The enlargement of the foot plate of the stapes indicates that the condition not only replaces previously evisting bone but also develops beyond the previous bounds thus simulating by perostosis.

JAMES C BRASWELL M D

Nash C S A Study in Otosclerosis A: Otol Rhinol & Laryi gol 1930 xxxix 769

Nash states that of a series of r ooo cases of deaf ness fewer than 6 per cent were definitely diagnosed as otosclerosis

In 48 per cent of cases of otosclerosis there is a family history of the condition. In 65 per cent the deafness begins at the age of puberty during pregnancy or at the time of the menopause. Timitus is present in 76 per cent of the cases paracuss will listana in 31 per cent a decrease in the tickle reflex in 86 per cent and vertigo in 4 per cent. A careful histopathological distinction must be

A careful histopathological distinction must be made between primary otosclerosis and secondary atrophic lesions produced by ankylosis of the stapes of middle ear origin

Chronic catarrhal otitis media and chronic suppurative otitis media may degenerate into forms which simulate otosclerosis but clinically cannot be considered complications of the latter condition

JAMES C BRASWELL M D

Sourdille M On the Surgical Treatment of Oto sclerosis J Laryngol & Otol 1930 xlv 601

The author reports his experiences in the surgical treatment of nineteen cases of otoscleross. In six cases the treatment has been completed. The first operation is an attroctympanotomy simple or combined with an internal plastic with a tympanic hinge. The ohject of this procedure is to explore and isolate the middle ear. A few months later the external seminactual archails opened as-eptically and the feneration is occluded by a thin epiderium membrane.

The end results depend entirely on the behavior of the epidermic flap. If this flap remains thin and closely applied against the osseous plane and the orifice of trephination of the semicircular canal the hearing is good but if retraction ulceration or keloid formation occurs the result is a failure

GEORGE R MCAULIFF M D

Meurman Y The Anatomy of the Aqueductus Cochlere and Remarks Regarding Its Physi ology (Zur Anatomie des Aquaductus cochlere nebst eningen Bemerkangen ueber dessen Physi ologie) Acta See med F nnicae Duod esm 1930 xiii Fasc I I

In a study of the anatomy of the aqueductus cochieve the author made injection tests on rabbits and studied serial sections of human temporal bones from Wittmarck s collection in Hamburg The human material consisted of fifty five temporal bones obtained from thirty two cadavers

In the rabbit the aqueductus cochlece is an osseous, canal from 2½ to 3 mm long and from 300 to 500 microns wide which contains a tube of soft issue projecting from the arachnoidea. The part of the tube which is closest to the brain is hollow whereas the part which is closest to the cochlea is filled by a loose network, of connective tissue that becomes denser toward the scala tympan. The reticulum of connective tissue fills up also an upper and posterior corner of the scala tympani between the membrane of the round window and the osseous wall

By injection tests made with suspensions of Chinese ml and other substances it was proved that there is a communication by way of the aqueductus cochies hetween the subarachond space of the haan and the perily mphatic space of the inner ear However coarse particles of the suspensions were retained by the network in the arachnoid tube. It appears that the current flows more easily toward than away from the cochiea

In man the length of the aqueductus cochleæ is at least ro mm in the adult and 5 mm in the new born infant. The width of the canal increases from the cochlea toward the brain. Close to the external aperture the canal is about fifteen times wider than at its narrowest point. The narrowest part is about a rim from the scala tympan. The average with of this portion is about ro in cross in the esseous canal and about o microns in the canal lined with endosteum. However it varies considerably in different persons. The extreme measurements are do and zoo microns in the osseous canal and 55 and 270 microns in the canal lined with endosteum from the canal lined with endosteum complete obliteration may occur in the narrow section probably from evaggerated endosteal ossif cation.

In children as compared with adults the canal is wide hut in the specimens studied the absolute measurements did not exceed the measurements in adults. It is possible that after the age of sixty years narrowing may occur especially in the nary

rowest section

In man the arachonoidea of the canal forms a hol low tube in the part toward the brain while to sard the cochiea at a distance of from 1 to 2 mm from the scala tympani it usually changes min of a cord without a lumen. The latter part contains reticular tsu eor is hollow in only rare cases. The arach noidea may show variations in its development also in the part toward the brain the part toward the brain.

Theories regarding the physiological importance of the canal are reviewed. It is presumed that in man the greater perivascular spaces of the modiolus cochiem to a certain extent make up for the greater width of the aqueductus cochiem in other manmail.

Meurman 1 Diffuse Suppurating and Necrosing Inflammations of it of internal Ear with P teula Ref rence to th Aqued ctus Cochi e and the A car Foraminosm (tie beth gin did ct ind mit ket ind in het of the condition of the condit

The author attempted to determ ne the relat on ship between the patholog cohistological picture in the inte ail ear and the possibilities for the propagation of inflammation and infection along preformed routes between the inner ear and the memniges. It the aqueductus vestibuli seldom transmits infection directly to the meninges, it is discussed only be felly. The investigation of the aqueductus cochlex is reported in detail

The mater al cons sted of eighteen clinical cases of inflammation of the inner ear from the clinics of Wittmack in Jena and Hamburg In si teen of these cases serial sections of the petrous portion of the other not primarily diseased temporal hone were all o studied histologically

In addition e periments were carried out on animals. In rabb its the inner ear was infected with various types of bacteria either directly or from the middle ear after injury of the membranes of the fenestre with chemicals. In addition the author studies a series of specimens of the petrous portion of temporal bones obtained from dogs with menin

This material and the findings of other investigators seemed to indicate that necrosis of the inner ear may be caused by various factors such as hydrops (Wittmaack) direct injury by bacter a or toxins and vascular injuries. Vascular injuries however are an important factor in all necroses of the inner ear.

The polymers are all interests to the limite ear. The polymers are all studied seemed to show that meningits or maturing in the inner ear is due more frequently to suppure in the inner ear and though some necrose of these of the develop from a suppurating inflammation interests. The desired is the suppuration and does not require a deep feed of suppuration and does not require a deep mecrosis. See real experiments on animals suggested that even in severe necrosis of the inner ear conductions may be such that extension of the inalfammation and infection toward the meninger is prevented. This may be eplained by strong resistance of the organism to the necrosing action of the bacteria in the form of a compose y education of leucation of the bacteria.

In suppurative inflammation of the inner estfollows g infection of the finesters the routes of extension closest to the fenestra are most exposed in inflammations due to erosion of the labyunthine capsule early involvement of the preformed routes close to the original site of the 1 fection is not evident. In inflammation is of the inner ear with diffuse necrosis the p eformed routes are involved

more or fess equally

In the human maternal studed advance of the inflammation toward the men nges vas found to occur most frequently by the m diolus cochleæ and ne t most frequently by the vestibular formunæ especially those of the macula sacculi and least frequently by the aqueductus cochleæ. Often several of these routes were involved simultaneously.

Previous anatomical studie made by the author pathological cases studied by other investig fort and the material examined in this in estigation show that in adults the aqueductus cochiec is seldom an important route for the advance of pathoreane bacteria from the inner ear to the meninges. This is due the light to its anatomical structure. In childhood it is of somewhat more pathological import nee because of the shriness of the narrow part of the cannel. Similar conditions pre ail in the occasional adult is the actual having an open lumen throughout its eitent. This was proved by some of the perments care for our on a number of great or the perments care for our on a number.

In the cases studied extension of the inflammation from the meninges to the inner car of the s de which became diseased secondarily occurred most frequently through the modelous canal next most frequently through the aqueductus cochiec and least frequently through the vestibular area foraminese.

In rahhts and dogs in contrast to man the aqueductus cochleæ was of chief importance in the passage of bacte in between the inner ear and the men ages The author adds remarks regarding the operative treatment of suppurative inflammations of the inner ear. He believes that in certain cases trephination of the fundus of the auditory meatus by the Uffenorde technique is the procedure of choice

Buzolanu G Research Relative to the Mechanism of Production of the Barany Caloric Reaction (Pecherches relatives au mecanisme de production de l'opreuve calonique de Barany) Arch internat de laryingol 1930 xxvv 680

In a clinical and experimental study the author found that the sympathetic nervous system plays a part in the mechanism of production of the caloric Barany reaction It influences the vasomotor phe nomena which transmit the thermic excitation to the labyrinth or perhaps influences directly the pressure of the lymph in the labyrinth Sympathica tonia increases the excitability of the labyrinth prohably by means of vasomotor phenomena while the parasympathetic system diminishes this excitability Therefore when it is necessary to cause thermic exci tation of the labyrinth in certain specific diseases the state of the sympathetic nervous system must be taken into consideration. In drawing conclusions as to the presence of hyperexcitability in hyperthy and ism for example we must always bear in mind the pre existing sympathiconia in this condition

By partial or total resection of the cervical sympa thetic the author has obtained a change in the ca lone Barany reaction characterized by a delay in the development of the nystagmus and a decrease in the duration of the phenomenon. When the parasympa thetic myoneural junctions were paralyzed by large doses of atropine the reaction developed more quick. I and was prolonged. Anymovy R. Camero M.D.

## Smith J M A New Operation for Chronic Puru lent Mastolditis La yngoscape 1930 xl 553

In the operation described by Smith the usual simple mastoid incision is made starting over the center of the mastoid tip and following the normal curve of the external ear from 4 to 12 in behind its attachment The incision is extended upward just above the temporal ridge The cortex is exposed with the spine of Henle the temporal ridge and the mastoid tip in full view. The hone is removed just below the temporal ridge and behind the spine of Henle until the mastoid antrum is opened posterior canal wall is not lowered unless it is neces sary to remove the outer part to avoid a far forward lateral sinus All of the granulations and diseased bone are removed from the antrum and mastoid cavity as in the simple mastoid operation. In the average chronic case there are few if any mastoid cells however the cavity is cleaned to healthy plate or bone

The aditus is then enlarged by removing a small portion of the inner part of the hindge just external to the incus and horizontal semicircular canal. If this opening is made too large it may interfere with the filling in of the posterior wound by granulations

The remnants of the ossicles are removed through the adius. In some instances it is easier to remove the mallens through the external auditory canal. The posterior half of the membranous canal is then care fully separated from its hony attachment in the external auditory canal and held in place against the anterior anal wall the anterior membranous attach ment being left intact if possible. In this way access is gained to the middle ear and attic. Through the opening the granulations and debris are removed from the middle ear.

The annulus tympanicus is removed and the eus tachian tuhe thoroughly curetted. The attic and the hony space extending posteriorly into the aditus then remain to he cared for Free access is obtained to this space in the roof of the middle ear by partially removing the external wall of the attic This corre sponds to the rim of bone furnishing the attachment for the upper part of the annulus tympanicus or the hony rim on each side of the ravinian fissure The removal of this hone together with the contents of the middle ear must be carefully performed since the floor of the cavity at the time of the operation is represented by the internal wall of the middle ear The facial nerve crossing the inner wall through the fallopian canal is covered by a very thin layer of bone and pressure on its wall will result in facial paralysis An accurate knowledge of the anatomy is necessary to avoid removing the stapes or injuring the labyrinth Care must be taken to leave a firm posterior bony canal wall as necrosis may result if tno much of it is removed

At this point in the operation the middle ear attice and the posternor wall is in its normal position. The membranous canal is now restored as nearly as possible to its original position in the external auditory canal and packed in place with vaseline gauze. A cigarette drain is inserted directly into the mastoid antrium hehind and the mastoid wound closed above and hellow with clips.

### NOSE AND SINUSES

Rosenwasser H Plasmocytoma of the Nasal Cavity Laryngoscope 1930 xl 576

Rosenwasser reports a case of nasal plasmocytoma in detail. A review of the literature shows that all though the tumor does not invade adjacent tissues and does not always involve the neighboring lymph glands it generally recurs even when extirpated by grally. In many of the cases reported in the literature there were multiple tumors associated with chronic cachexia.

JAMES C BRASWELL W D

#### MOUTH

Dorrance G M Congenital Insufficiency of the Palate Arch Surg 1930 xx 185

Congenital insufficiency of the palate is a condition in which the velum assisted by the superior constrictor muscle of the pharyny fails to produce the sphincter like closure bet veen the nasopharynx and the orthopharyny v hich is essential for the production of normal speech. Attention was first called to it by Rout in 1825 In America it was first men

tioned by Mears of I hiladelphia in 1893

Cases may be classified into the following six groups

Those in thich the entire palate is normal in appearance but the clum is unable to approximate the pharyngeal vall because of anterprosterior shortening of the hard palate and the volum

2 Those in which the hard palate is pormal and the velum is shorter than normal

- Those in which the velum is normal in length and the hard palate is short Those in which the lard printe is normal in length and outline but there is a submucous cleft of
- the velum Those in which the velum i normal in appear ance and length but there is a submucous cleft ex
- tend ng into the hard palate 6 Those of insuffciency of the palate after suc cessful cleft palate operations in which the velum is

too short to reach the posterior phary ngeal wall The eause of congenital insufficiency of the palate is unknown but it is apparent that heredity plays

an important rôle

Velopharvageal closure is accomplished by the superior constrictor muscle of the pharynx which pulls the relaxed muscular tis ue of the posterior wall of the nasophary ny upy and and for vard v hile the lateral walls approach the milline The velum is brought up and and backward by the levator palati muscles The tensor palati muscles make the ralatine aponeuro s tense by pulling the velum for ward and outs ard

The palatophary ngeus muscle has a portion known as the salpingopharyngous this b on contracting increases the bulk and thickness of the pharingeal wall thus narrowing the lumen of the pharyny The other portion known as the palatopharyngeus depresses the velum on contracting thus acting as a direct antagonist to the levator palati muscles The posterior pliars of the fauces are formed by the palatopharyngeus muscles v hich have more to do with deglutition and vomiting than vith speech

The more active contraction of the portion of the pharyngeal wall known as Passavant's cushion in an attempt to bring about velopharyngeal closure leads to marked de elopment of the pterygo pharyngeus muscle. In like manner the superior constrictor muscle of the pharynx undergoes hy

pertrophy by continuous use

The blood supply of the palate is derived from the nasopalatine essels the posterior and accessory palatine vessels and branches from the pharyngeal anastomosis The nasopalatine arter es anastomose with the poster or palatine arteries The descending palatine arteries supply the hard palate the al color processes and the gum to sues. The accessory pala tine arteries supply the velum. The pharyngeal anastomosis is formed by the terminal branches of

the lingual facial and ascending pharyngeal ar teries. The bony pilate is said to have an inde pendent blood supply being thus protected from necrosis following cleft palate operations. There is a fairly rich anastomosis between the arteries on the same side but not much vith those of the opposte side

The nerve supply of most of the muscles of the walls of the phary ny is derived from the phary ngeal plexus which is formed by I ranches from the glossopharyngeal spinal accessory and pneumogastric nerves The tensor ralati muscle is supplied by the mandibular branch of the trigeminus and the levator palati by the bulbar root of the spinal accessory

The final diagnosis of congenital shortening of the palate can be Ichnitcly established only after the child makes efforts to speak. Children with this condition are apt to be slow in learning to speak and speak indistinctly Other conditions which must be ruled out when the diagnosis of congenital sosuff esency of the palate is made are pal v of the pafate stomatofalia and speech defects due to the loss of teeth or faulty use of the tongue

It was early recognized that perfect speech can he obtained only when the velum is brought in con tact with the posterior walls of the pharynx. In order to accomplish this some surgeons have at tempted to lengthen the palate others to bring the vall of the pharynx forward and others to use an artific al velum

In 1865 Passavant outlined three different opera tions to secure the necessary approx mation only to condemn them all in 1878 when he devised a pro eedure for the correction of velopharyngcal defi ciency In the latter he made a shelf like projection on the posterior wall of the pharyny from a quadri lateral flap which I as raise I and folded over on the ray surface. However the shelf gradually dis appeared and the procedure v as soon abandoned

Among other operations proposed by various sur geons vas osteal uranoplasty which was first sug gested by Dieffenbach in 1826 and is still in use by some surgeons in suitable cases of eleft palate

In 1880 Billroth advised dividing the bamular process in cleft palate operations for the purpose of releasing tension on the line of suture. In 1893 division of the tensor palati palatoglossus

palatopharyngeus muscles v as suggested by Mears The injection of parasiin into the retrophary agea space to advance the posterior wall of the pharynx

has be n used but is not to be recommended be cause it is dangerous

A method described by Blair in 1911 consisted of an autoplastic operation in which use i as made of sliding flat from the buccal mucosa Tickerill in 1912 suggested a method combini g palatoplasty with pro thesis In 1024 Rosenthal revi ed Schoen born's velopharyngoplasty with a modified I angen beck uran plasty to be ione at one sitting method was criticized by Frnst and in 1925 an opera tion kno vn as the Lrust Halle method was described

In 1926 von Graa advised the implantation of fat and fascia tissue into the retrophary ngeal space to produce bulging of the phary ngeal wall. To de crease the chance of infection he suggested entrince through the neck by way of the superior lateral triangle. Kirkham in 1927 shortened the constrictor muscle of the pharynx so is to permit it to contract more locibly. He believed that velophary ngeal in sufficiency was due more to the widened phary nx than to the shortened velum.

Interlaminar osteotomy of the pterygoid process and pterygomaxillary osteotomy was suggested by Limberg in 1927. This was done to preserve the continuity of the posterior palatine vessels and nerves which Limberg claimed were divided by the Ernst Halle operation. In 1928. Wardill developed a two stage operation by which he combined narrow ing of the pharyngeal canal with closure of the cust

ing cleft in the palate

In cleft palate cases the insertion of the levator palati muscle is placed so far forward that it cannot possibly pull the velum against the posterior playingeal wall as would the normally placed muscle Moreover when the elevated palatine mucoperosteum is completely freed from its attachment to the bony palate the fan shaped portion of the tendon of the tensor palati prevents backward displacement of the flap Division of this fan shaped portion with liberation of its attachment to the bony palate per mits the palate to fall backward by its own weight so that it approximates the pharyingeal wall

With the importance of these two points in mind the author has devised the following operation

An incision is made parallel with the alveolar margin and as near it as possible to liberate a flap of palatine mucoperiosteum. The flap is then freed from the bony palate from before backward. Dis section is carried down to the utachment of the palatine aponeurosis at the posterior edge of the bony palate and the posterior palatine arteries are divided. This constitutes the first stage of the operation. In some cases it has been possible to complete the entire procedure in one stage but as a rule the tive stage operation is more satisfactors.

When the operation is done in two stages the first stage is completed by replacing the flap in its original position and suturing its edges and the second stage is carried out ten days later. In the second stage the flap is raised again and the attachment of the pal atine aponeurosis to the bony palate is divided along with that portion of the tensor palati muscle which is inserted into this aponeurosis. The flap then falls backward against the posterior wall of the nasopharynx The anterior edge of the flap is sutured to the hard palate and to the soft tissue on either side. It is further supported by placing an appliance on the teeth or passing a silver wire around each of the molar teeth. The denuded sur face produced by the posterior displacement of the velum rapidly fills in with granulation tissue

The author reports the use of this method with success in three cases of congenital insufficiency of the palate and in seven cases of shortened palate in which operation had previously been performed but velopharyngeal closure was insufficient

WILLIAM G HAMM M D

#### PHARYNX

Vialle Le Coon and Ronchese Mixed Chancre of the Tonsil (Le chancre mixte de l'amygdale) Arch internat de laryngol 1930 xxxvi 513

The authors define a mixed chancre of the tonsil as an ulcerative lesson in which the fusiform bacillus and the spirillium of Vincent's angina are found as well as the spirochard of syphilis. With regard to the pathogenesis of such a lesson it is theoretically conceivable that syphilitic infection can be engrafted on a previously existing tonsiliar ulceration resulting from Vincent's angina. However as the pain and discondior of Vincent's sore throat the general maluse incident to it and the repulsive odor impurits to the breath all predude the possibility of either normal or abnormal sexual relations the origin of fuetic contagion the authors believe that Vincent's infection becomes engralted on a pre-existing luetic sore of the tonsil

In reporting two cases of mixed chancre of the tonsil the authors emphasize the difficulty in the diagnosis. The clinical picture is dominited by the phenomena of Vincent is infection. Digital examination for induration a careful microscopic study and reperted blood Wassermann tests are indispensable diagnosit, aids. The identification of the spirocheta pallida may be difficult because of the not infrequent presence of the spirochata dentium which closely resembles the spirochata dentium which closely resembles the spirochata pallida morphologically. The spirochata dentium bowever is shorter and slightly more motile and contains fewer and closer spirals than the spirocheta pallida.

ANTHONY R CAMERO M D

#### NECK

Ellers Blood Cysts in the Region of the Neck (Ueber Blutcysten der Halsgegend) Dei ische Zisclr f Clur 1930 ccrxxiii 270

The classification of blood cysts into true and pseudo forms which is generally accepted today was suggested by Spannaus True blood cysts are em hryonal inhibition malformations that is substitu tion formations in the fetal anlage of large veins or varix nodules with or without communication with the mother vessel Psuedo blood cysts may originate from angiomata lymphangiomata branchial duct cysts or lympb gland mallermations ported a case in which the subclavian vein on one side of the body was completely absent and its place was taken by three large blood sacs in wide communi cation with each other Hueter Bajardi Guenther and Borrmann have made similar findings describing the end results of dilatations of the years Rokitansy called attention to cylindrical and irregu lar sac like venous protrusions. He concluded that

the isolated venous nodes are a rare type of the latter In discussing the development of pseudo blood cysts from branchial duct cysts the author quotes Gluck and 1th regard to their develop ment from congenital lymph gland malformations he refers to Baver

In conclusion Eilers reports a case of his own The patient was a boy aged seven years who com plained for weeks of weakness twinges and a peculiar numbness in the right arm. The mother soon noticed a mass the size of a cherry which grew to the size of a hen's egg E ploratory puncture which evacuated from 50 to 70 c cm of a bluish black not thickened blood vas followed by almost complete collapse of the protrus on but after a few days the mass re appeared Total extirpation of the cyst was then done under anæsthesia induced with percain. On histological examination, the structure was found to be a pseudo blood east originating from a deep cavernous angioma. The pressure of the straps of the child's school hag was believed to have been the exciting cause

Brown A The Influence of Hyperthyroldism upon the Secreti n of Free Hydroci to ic Acid D3 XC 3

Of twenty cases of hyperthyro dism in which the author studied the gastric acidity he found achlor hydria in eleven hypochlorhydria in fve and nor mal acidity in four. Of twelve p tients with ex ophthalmos seven had achlorhydria one hypochlorhydria and four a normal acid ty. Of eight patients without exophthalmos four had achlorhy dria and four had hypochlorhydria Of fifteen patients without fibrillat on eight had achlorhyd ia four hypochlorhydria and three a normal acidits Of two with temporary fibrillation both had achlo hydria Of three with fixed fih llation one had achlorhdra one had hypochlorhydra and one had a normal acidity The author dra s the follo ing

conclus ons I The symptoms of hyperthyro dism can be in terpreted in terms of an increased sympathetic dr e due to the action of the altered thyroid hormone caus ng over sensiti ation of the thoracicolumbar sympathetic system which overrides the normal antagonistic moderator action of the parasym pathetic

2 Depending upon which portion of the sym pathetic system becomes most highly sensiti ed there will be a relative preponderance of ocular cardiac or gastric symptoms

3 The stimulation of the gastric symp thetic acts inhibitorily on ac d secretion and results in a diminution or lack of free hydrochlo ic acid

I S MODERN M D

Clute H M Ope ative Mortality In Hyperthy roidism J im M i 93 c 389

The author discusses the fatalities in 2 769 cases of hyperthyroidism treated surg cally at the Lahey Clinic Boston during the five year period from

1025 to 1929 In the 2 128 cases of primary hyper thyroidism (e ophthalmic goiter) there were 14 deaths a mortality of o 65 per cent and in the 642 cases of to ie adenomatous goiter there were 12 deaths a mortality of 1 87 per cent

Naneteen of the 26 deaths were due to postop erative intensification of the thyroid intoxication 3 to emholi 2 to med astinit s I to pneumonia late in convalescence and I to typhoid The author be heves that 12 of the deaths were unavoidable but that 14 might have been due to an error in judgment

The latter are of special interest. All were the result of postoperative intensification of the thyroid intoxication In 8 cases the postoperative increase in the interication v as complicated by pneumonia

Previous to 925 hyperthyroidism was t eated at the Lahe, Claic by multiple stage procedures In 1925 these were superseded by pre operati e preparation with iodine follo ed by operation per formed in a stage As the mortality increased after thi change a return was then made to a judicious use of the multiple stage peration whether pre operati e iod ne medication vas u ed or not. The mortality was then reduced to the minimum

In conclusion the author states that the une pected deaths a c those of patients of fo ty years or over those who veigh only about 100 lh or have had a large loss of eight and those who have suffered from ell marked hyperthyr idi m for more than a year He ecommends that in the cases of such patients the thyroidectomy be pe formed in JOHN H WOOLS Y M D stages

Roed r C A nd killins W A ATI i d Type f Toxic Tl y old m \oth t Med 103

The authors first discuss the structure and func tion of the normal and gottr us thyroid gland. In the normal thy roid f ur type of parenchyma re to he di tingui hed. These are characte ized re pec tively hy (1) interfoll cul r or embryonic cell (2) fetal follicle (3) mature foll cles and (4) collo d follicles

The 1 terfollicular or embryonic cells and the fetal follicles hich are formed from them decrease the matu e follicles h ch are probably formed from the fetal follicles inc ase as the org mm g vs lder The colloid foll cle are re t ing or nact e units faving the same life h tory as the mat r f Ricles

The structure of the hype functioning thyroid and t zic gotter sho s t o types of pare chymatous changes (1) parenchymatous hyperplasia a d (2) The hyperplas a 18 pare chymatou hypertrophy character ed by an increase in the number of inter f llicular rembryonic cells which produce no secre ti n the intrafoll cular secretory cell and the e capsulited and non encapsulated fetal follicles The hypertrophy 1 characterized by an increase in the

s e of the cell and foll cles The authors report a gr up of cases of p ogressive

e ophthalmos with a norm l or sub ormal hasal

metabolic rate susceptibility to desiccated thyroid no response to the administration of iodine and no reaction to partial or complete thyroidectomy Join H Wootsey M D

Laryngeal Tuberculosis (Di alcuni reperti radio

Feci L and Pietrantoni L Roentgen Findings in

grafici nella tuberculosi larin ea) Radiol med

The authors made roentgenograms of the larynx of normal persons persons with chronic pulmonary glandular or osseous tuherculosis without lary ngeal lesions and persons with old and recent laryngeal luberculosis. Direct roentgen examination of the larynx with a laterolateral projection such as that used in the examination of the cervical spinal column gives a very good picture of the larynx and trachea

In patients with non laryngeal tuberculosis the recentgenograms showed premature ossification at the sites of normal ossification or zones of disseminated calcification particularly in the posterior part of the larynx. In some cases the latter looked like residues of preceding laryngeal tuherculosis which had been slight and had not caused clinical symptoms. In the cases of laryngeal tuherculosis the roentgenograms showed the chief phases of tuherculous chondritis and perichondritis. In the

acute phase with rapid destruction of cartilage and disappearance of the stroma rarefaction of the cells and suppuration of the cartilage itself the roentgen findings were characterized by irregular zones of rarefaction of an amorphous granular appearance and indistinctness of the edges and structure of the cartilage In some cases there was thickening in various sites particularly in the posterior part of the laryny In primary and beginning chondritis and perichondritis the roentgen findings were not suffi ciently characteristic for a diagnosis. In chronic laryngeal tuberculosis roentgen examination showed the intensity of the calcification and ossification of the laryngeal cartilages which was manifested by disseminated opacities in which the normal trabec ular structure usually could not be distinguished These pictures were sometimes superimposed on those of a condensing osteitis. The histological pictures varied from normal centers of ossification to centers undergoing diffuse necrosis and centers showing zones of superficial or deep calcification alternating with areas of cartilage that were almost normal or undergoing suppuration

Roentgen examination of the larynx and trachea in laryngeal tuberculosis permits a more exact diagnosis than laryngoscopic examination alone

AUDREY G MORGAN M D

## SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Pancoast II K and Fry T Friepl alography as the Roentgenologist Should Und tind it An Attempt to Standardize the Procedure P d l ogy 193 xv 173

Encephalography has become established as a valuable and rel able roentgenological procedure for more e act diagnosis and focalization in cases presenting more or less obscure symptoms of organic cerebral disease. It permits the detection of many cortical lesions that could not be diagnosed without it By a prop r technique a clear visu lization of the cerebral surfaces surrounded by cerebrosomal fluid may he obtained The outline of the fluid spaces filled with air is such that one familiar with the normal anatomy of the structures can determine the presence of e en a slight disturbance of relationships By comparing abnormal appearances of the fluid spaces in the roentgenogram with pathological speci mens showing similar gross defects or with operative findings it has now become possible to diagnose correctly the majority of cases of obscure ce chral symptoms from a study of the roentgenogram after due consideration of the history and neurological signs

Accurate roentgenological diagnosis requires a tho ough knowledge of the anatomy of the part examined an understanding of the nathological changes in cond tions amenable to diagnosi famdi arity with normal roentgenographic appearances and expe sence in the interpretation of roentgeno grams Accurate encephalography requires in addi tion a uniform and e act roentgenological teel nique to produce roentgenograms which can be interpreted and a technique of air injects a carried out with p oper regard to changes in intracranial pressure and proter manipulation of the patient during the procedure Standardi ation is essential for comparison of the findings in one group of cases with those in another and of the findings of different examinations in the same case

The roentgenological technique and the method of air injection used by the authors are described in detail. Neuro anatomical relationships with regard to the pathways for cretbrospinal fluid circulation are reviewed and the significance of the roentgenological changes noted when cretbrospin I fluid is replaced by air is discussed. Changes from the nor mal occurring in the presence of obstructive les ons along the course of the fluid path ays are described and shown in fillust tions.

Before an encephalographic study is attempted the case should be ca ef lly studied neurolog cally to determine if possible whether the method is ind

cated or contra indicated When a tumor mass is present in the posterior fossa or there i obstruction to the outlet of fluid from the ventricles such as is present in internal by drocephalus cerebrospinal fluid cannot be properly drained from the cramal cavity or air introduced into it. Under such circumstances encephalography is unsatisfactory and c ntra indicated Moreover it i dangerous as the i tracran al pressure is usually increased and the withd a al of spinal fluid may allow the brain to expand in the direction of the releas of pressure so as to force the cerebellar hemi phe es into the foramen magnum producing a hernia with pressure on the medulla and respiratory fadure. This danger has led to the ad ption of an arhitrary level of pressure above which encephalography is regarded as unsafe. Encepha lography is contra indicated then the spinal fluid pressure is above 20 mm. Hg with the patie t in the horizontal position and resting quietly. In properly selected cases the danger associated with the method is slight. In the authors, series of 117 cases there was only t leath and this occurred three days after the procedure In 1 520 cases collected by the authors from the literature the mortality was I 2 per cent and it was evident that in some of the fatal cases contra indications existed or the condition of

the patient d d not warrant the procedure In cases of traumatic injuries including tirth injuries encephalography has demonstrated unsus pected gross lesions. In cases of idiopath c and symptomatic epilepsy it has revealed gross atrophy in nearly e ery instance in which the symptoms h d been present for a year. In cases of mental detenoration dyskinesia chronic headache vertigo and traumatic neuros s it has disclosed definite e idences of g oss ce chral deformity. In cases of cereb al tumors it has made localizat on more e act and has determined a hetter selection of the operative pro cedure in the indi idual case. In the latter g oup its risk is undoubtedly higher than in any other group but is less than that of ventriculography and no greater than that of lumbar puncture with with drawal of fluid for diagnostic purposes

Adolph Hartung M D

Crotlers B Vogt E C and Eley R C Enceph alography in Cases with Fixed Lesions f th Brain Am J D Ch ld 930 1 2 7

The authors limit the r d cussion to the cases of children with an anatomical defect or physiological perversion of the brain due to injury or infect on of

the nervous system

They claim that conventional methods of examination and hospital observation fail to reveal or right out structural changes which may be present in such cases.

While they admit that the injection of air by the lumbar route is a formulable procedure they believe it is justified when a definite diagnosis is impossible without it. According to their experience it is not likely to aggravate the lesion. As a rule hawever there is a moderately severe reaction to it and in one of their cases death resulted nincteen days after the injection. Increased intracranial pressure is a contra indication.

The authors have found that encephalograms properly taken and interpreted give definite information of positive value in at least one half of properly selected case. In the rest, they establish negative

facts of importance

They believe that encephalography should be used before final judgment is passed on the future if children severely bandicapped by fixed cerebral le sions unless less severt, methods are adequate. Hinwever they are unwilling to base the diagnosis and prognosis on encephalograms alone

LEO M DAVIDOFF M D

Coleman C C Brain Abscess A Review of Twenty Eight Cases with Comment on the Ophthalmological Observations J Am M Ass 1030 xey 568

Abscess of the brain results from septic encephalists and is not operable until encapsulation occurs. Success in the treatment depends on the removal of the localized infection without the production of ex-

tensive encephalitis

The diagnoss is rarely made in the early stages but after encapsulation has occurred the nature of the condition is suggested by evidence of a localized intracranial disturbance following an infection of the mastoid or paranasal sinuses. The diffuse encephalities for equantity obscured at first by the antecedent infection but persistence of signs in intracranial involvement after operation on the sinus or mastoid should arouse suspicion of its presence. In cases without a definite history of sinus infection in with hilateral involvement ventriculography may be necessary for diagnosis and localization of the abscess

Choked disk has been found to occur with about equal frequency in hrain abscess and brain timor Nerve head changes were noted hefore operation in sixteen of the twenty eight cases of cerebrial and cerebellar abscess re iewed by the author. This finding indicates only an increase of intracramial pressure hut may he valuable confirmatory evidence when a slow pulse dullness and other signs of pressure are present.

Lille states that progressive choking of the disk is an indication of the presence of active encephalitis and that the favorable time for operation is when the swelling has become stationary. However, there is danger of rupture of the abscess when intracramal pressure hecomes so high as to produce choked disk. There appears to be no relation hetween the size of the abscess and the degree of choking of the disk.

In the cases reviewed palsy of the ocular muscles was of little aid in the diagnosis except in the case of a comatose patient with a fixed dilated pupil

The technique of operative treatment varies considerably with different surgeons. The methods used include the formation of an osteoplastic flap single nr repeated tappings and excision of the over lying cortex to allow extrusion of the abscess wall In cases of small deep thickly encapsulated ah scesses even tapping with a ventricular needle is difficult and when there is a high intracranial pres sure a subtemporal decompression may be necessary to prevent a fatal outcome from the rise in pressure In all of the cases reviewed drainage with the eye end of a soft rubber catheter was attempted some instances more than one attempt was necessary hefore the catheter could be inserted. The author believes that the results of this method were better than could have been obtained by any other pro-E S PLATT M D cedure

Stammers F A R A Study of Tumors and In flammatinns of the Gasserian Ganglion Brill J Strg 1030 vviii 125

Seven cases of tumor and two of inflammatory lesions of the gasserian ganglion are presented with a review of the literature and a description of the development and anatomy of the ganglion

The author places emphasis on the sequence of symptoms which makes the diagnosis of these lesions possible. The first symptom resulting from tumor involvement of the gassenan ganglion is pain in the fifth nerve area which is progressive in severity and persistence. It affects more than one division Arising either simultaneously with the ninginal onset in pain or very shortly afterward is a subjective alteration in sensation over the same area in the form of numbness or paræsthesia. At about the same time paresis of the masticatory muscless may develip. The subsequent symptoms depend upon the direction of spread of the tumor.

Section of the posterior root with removal of as much of the tumor as possible offers the best chance of relief

ROBERT ZOLLINGER M D

#### SPINAL CORD AND ITS COVERINGS

Beck G S Chordotomy for Intractable Pelvic Pain 1nn Surg 1930 von 335

Chordotomy (section of the anterolateral tract of the spinal cord) is recommended for the relief of any form of intractable pain in the abdomen pelvis or

The operation is not difficult. The level for the lammectomy varies with the case. As the fibers entering the cord ascend several segments before they cross to the contralateral side the operation must be performed several segments above the segment level of the pain. The highest level at which section of the anterolateral column can be made without invulving the phrenic nerve is the level of the surth cervical segment.

Two or three spinous processes are removed together with their laminæ the dura is opened throughout the length of the inc sion and the arachnoid is opened along the midline posteriorly Retraction of the arachnoid exposes the dentate ligament and the posterior roots. The dentate ligament is grasped in a small clamp Gentle traction upon the dentate ligament rotates the cord and exposes the anterolateral column It is this column that carries contralateral pain and temperature fihers These fihers he in the area between the dentate ligament and the line marking the emer gence of the anterior roots from the cord and ex tend to a depth of 3/ mm The knife is inserted into the cord at the dentate ligament to the mark on the hlade (31/ mm from the point) and carned

forward to emerge at the e to 6 an antenor root Following division of the anterolateral tracts there should be complete loss of pain and temper ature sense on the opposite s de depending upon the level and depth of the section. The motor function and tactile vibratory and postural perceptions are not impaired. The reflects are preserved. No

urnary difficulties occur after unlateral section.

The operation is best carried out under local anaesthesia. The section can he repeated to obtain the desired height. Of nineteen cases reported by Peet complete rehef was obtained in at teen partial rehef in two and complete but apparently only

temporary relief in one
The author reports one case in which chordotomy
was done and reviews the history of the operation
Dayin I highest to M D

Delh rm L and Morel kahn M Tie Tr tment of Syring myelia hy Roentgen Therapy 1 J S rg 93 12 3

The authors state that the beneficial effect of rradiation in syringomyelia has been recognized for a long time and that if the pathogenesis of syring gong-lia were known the technique of irradiation treatment would doubtless he improved and its results would be better. It is generally helie of the disease is due to the development of an intra medullary ghomatous tumor. The authors attribute henche all effect of irradiation to greater radio sensitivity of the young rapidly groung cell of timor as compared with the surrounding normal

nerve tissue
Of 159 cases treated with the \text{\text{Tays}} which have
been reported in the literature 124 (79 per cent)
showed improvement and in a few the improvement
was so great that the term cure seemed justified
in 33 (21 per cent) the condition was either not
alleviated or was aggravated
Of 15 cases treated by
the authors the condition was improved in 9 (60 per
cent) remained unchanged in 1 (7 per cent) and
was aggravated in 5 (33 per cent). In practically all
of the cases in which improvement was obtained the
symptoms had been present for only a relatively
short period of time. When the period between the
onest of the condition and the beginning of treat

ment has been longer than ten years there is I tile prospect of a successful result. However irradiat on should be given even in such cases as it offers the only hope of benefit

With regard to the technique of the irradiation the authors emphasize that the treatments must be given over a long period of time (regression must not he mistaken for improvement) and that an area much larger than that in which involvement is revealed by the clinical examination must be treated.

CIANESS HERGORY MD

#### Fraser J A Cystle Dermoid Tumor of the Spin 1 Cord S f Gy c & Ob t 03 1 6

In a teview of the I terature the author was able to find only thitteen cases of syste dermod tumor of the spinal cord. He reports such a tumor occurring in a male twenty two years of age. The sgis and sy mptoms led to the provisional pre-operative dig moss of posterior or posterolateral extramedullary meningeal tumor at about the level of the seventh or eighth thoracce segment.

At operation a sil er gray gl tening tumor 4 5 cm long and 0 7 cm wide was found with its central long axiscorresponding to the posterior median fissure of the cord The cyst was easily enucleated

Apparently it had at ted for twenty one years without causing symptoms. Disparity between the rate of growth of the cyst and hody itsuses probably explains why the cyst began to exert suffe cnt pressure on the posterior columns of the cord to produce symptoms. Ro refolkings MD

K t born A Chronic Adicsive Spinal Lept meningliis non Condition for Ope at le Trat ment (De L pt m gut adh a h ma sp is ! Oge st d p t e B ha dl g) Z talbl f Ch 93 p 986

The pathologico anatomical picture of chron c adhesive spinal leptomeningitis show morbid changes in the arachnoid and pia in the form of cellular infiltration with subsequent connective inside the consideration and the chronic press of the arachnoid on the consideration and the close meshes of the arachnoid on the one side and between the arachnoid and the pia or spinal cord on the other in part localized in part spread diffusely over large areas of the spinal cord part cularly in the dorsal and lumbar segments. At some places the changes consist chiefly of local

c, stic collections of sp hal fluid
In the cases operated upon by Kortzeborn there
was complete or partial obliteration of the sub
arachnoidal space with obstruction of the fluid or
spinal fluid varying in degree but without actual
ascculation of the fluid in the sense of cyst formation
The dura is for the most part entirely normal on its
inner surface or shows at the most very fine ad
heaving to the arachnoid. There is therefore cer
tainly a chrone isolated adhesive desires of the soft
spinal meninges whereas in pachymeningits the
soft membranes are always uninvolved.

The author reports three cases in detail The syndrome of spinal cord injury (spastic paresis sometimes with vesical and rectal disturbances and disturbances of sensation) varied in seventy. In the first case the condition followed trauma with hemorrhage into the dural sac and in the second case it prohabily developed on the hasis of a meta static infection. In the third case the cause could not be determined.

Myelography is of particular value in this condition. The purpose of operation is to separate the adherent surfaces completely and with an little injury as possible. In very extensive processes it may be necessary to limit the intervention to the removal of the adhesions in the field which the unclogical findings and the myelogram show to be most affected. The prognosis for permanent cure must be guarded as it depends on whether all of the adhesions are removed how far the secondary spiral cord injury is capable of retrogression and whether or not fresh adhesions will form. Wanke (Z)

#### MISCELLANEOUS

Iason A H Lederer M and Steiner M Changes in the Spinal Fluid Following Injection for Spinal Anæsthesia Surg Gynec & Obst 1930 h 76

Although spinal anæsthesia produces much less toxic effects than general anæsthesia it has certain

immediate and remote sequelæ which have not yet been satisfactorily explained

The authors report an investigation undertaken to study the relation of changes in the spinal flind to the sequelæ of spinal anæsthesia. The spinal fliud was obtained hefor and twelve hours after the intro duction of the anæsthetic into the spinal canal. Cell counts including differentials and chemical tests including those for alhumin globulin and sugar were made the colloidal gold reaction was studied and the sigar determined quantitatively. In addition neurological tests were made. Thirty one cases were thus investigated.

In 14 cases no red blood cells were found in the spinal fluid of these ri showed a definite increase in the number of white blood cells the counts ranging up to 800 cells per culic millimeter. In o cases there was increase in the spinal fluid sugar averaging 37 3 per cent. There was no change in the alhumin or globulin or the colloidal gold curve. Thirteen patients developed mild postanesthesia sequele but there was no correlation between these sequele and the changes in the spinal fluid.

The authors conclude that the technique of spinal anæsthesia causes a mild meningeal reaction in some cases but does not produce serious organic changes manifested by alterations in the composition and constituents of the spinal fluid. They do not explain the cytological changes or the sugar.

ALBERT S CRAWFORD M D

## SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Warren S L A Roentgenological Study of the Breast 1m J R ents 1 1930 x 1 x 3

Following Cutler's description of the study of pathological changes in the breast by transillumina tion it occurred to Warren that the same changes of density might be recorded on a reentgenogram with the additional ad antages of a stereoscopic technique and a permanent record. In this article Warren describes the technique employed in 110 eases over a period of three years. Stereoscopic roentgenograms of both breasts were made in every case.

As the anatomical structures vary in density the implic arools ducts sept lobules and fat can be identified. Abnormalities in the roentgenograms correspond very closely, to the gross pathological changes. Warren was shile to recognize hierast abnormalities and beings and malignant tumors from their roentigen appearance. The great set off citily encountered was in differentiating between certain cases of chronic mastitis with densi infiltrating inflammatory areas and carly serrious careinoma. The value of the method is attested by which 43 were definitely proved by operation or autops). Se eral of these errors were made early in the wol.

Thirty three cases were studied following treat ment with radium and the roentgen rays. Immediately after the treatment or during the react: a the deeper tissues showed a diffuse hariness due to congestion and ordema. Later in the favorable cases only the connective tissue f ame orl, of the tumor could be visualized. Chark 18 II Reaccox W D

Brancatl R Fat N crosls of the Breast (La ne o 1
g o dell m mm ll ) i h tal d ch 93
1 58

The author briefly re iess the literature on fat necrosis of the breast and reports three cases. Fatly tumors constitute 7 per cent of beings tumors of the breast. Necrosis of a fatly tumor may be caused by trauma a circulatory disturbance bacterial infection chemical action the act on of a blood borne place o a metabol c disturbance associated with obesity. It is most common in obese women he tween the ages of twenty and fifty years.

The author describes the pithological anatomy in detail The condition may occur in any part of the breast but appears most often in the premainmary fat following a direct injury hypodermochysis exposure to excessive heat or cold or \(\naggregar{c}\) retainmar The tumor may or may not be addirent to the sur rounding tissues. Pain and constitutional symptoms are absent.

The diagnoss is diff cult because of the great sum larity of the lesion to carcinoma Conditions to be differentiated include tuberculos a lipoma adenoma chronic interstital mastitis cystic mastitis and guinma Microscopic examination is usually necessary. The prognosis is good In most of the cases reported a radical operation was done because an erroneous clinical diagnosis was made. When the diagnosa is scertain the tumor may be allowed to regress spontaneously or may be excised locally

In two of the author s three cases radical surgery was done because of an erroneous diagnosis of carci noma. In one a correct d agnosis was made and a cure obtained by local excision.

A Louis Rost M D

## TRACHEA LUNGS AND PLEURA

Debenedetti E. The Pleuropulmonary Compileations of Abd min I Dis asses. P stoperati e Pulm nary Compileati ns. (I. mpl s. or pl opolmon ra dell mi time ddom. I Le e mpl e om polm an p t-op t. e). A h i I d. de. 101 XXVI 65

The author discusses the pulmonary complications of abdominal disease other than frank suppurations. He refers especially to diseases of the structures of the upper part of the abdomen. The functional complications include cough and dispancia and the matomical complications pulmonary congestion bronchitis pleurisy atelectiss and mass ecollapse of the lung. Several cases a ereported

A study of the pathogenesis of these completed tons requires a consideration of the anatom cal connection between the abdominal and thoractorgans by way of the blood 1) mph and nervous system tems especially the vegetative nervous system

Complications of an infectious nature are well en plained on the basis of extension through the blood and lymph streams. It is noted that such complications occur more frequently after operations on the peripheral structures of the body his drain through the systemic venous system directly to the lungs than after operations on parts of the abdomen which drain through the portal system Howe er lung infection may be favored all oby reflex impairment of pulmonary mobility circulation and elastic tone.

Non infectious complications are the result of changes, inthin the lung caused by refle es through the vegetative nervous system. The author deusses the close connection of the upper abdominations and the lungs through this system. The mechanism of the development of non-infectious pulmonary complications from ab hominal conductions like pin pally in durbances I vasomotor

and bronchomotor tone. The degree of change is directly proportional to the intensity of the afferent stimulus Certain pulmonary complications may he produced experimentally by the production of visceral reflexes

Postoperative complications in the luog may be the result of stimulation of the splanchnics by the trauma of operation The rich distribution of the oerves in the upper abdomen accounts for the greater incidence of complications following operations in this region than in other regioos. Although the anzsthetic may play a rôle the principal problem for the future is the reduction of surgical trauma

A Loms Rost M D

Razemon P The Experimental Production of Pneumonia and Lung Abscess by Intravenous Inoculations After Phrenicectomy (Production evpenmentale de pneumonies et d'ahces du poumon par moculations intra veineuses après phrénicec tomie) Arch med chir de l'appar respir 1930 v

It is generally believed that postoperative pulmonary infection comes from the operative field and is favored by temporary reduction of the pulmonary To determine the influence of paralysis of the diaphragm Razemon performed experiments on rabbits and guinea pigs in which after the in travenous injection of colon bacilli he sectioned one phrenic nerve. Immediately after section of the phrenic nerve the involved half of the diaphragm rises and then rapidly becomes lower than the other half Rabbits and guinea pigs were chosen for the experiments because their respiration is exclusively abdominal and the colon bacillus was chosen for the intravenous injections because by means of this bacillus pulmonary lesions are most easily provoked

When a sufficient dose of organisms was injected hepatization or miliary abscesses constantly ap peared in the luog on the side on which the phreni cectomy had been done. Wheo the dose was exces sive the animals died of septicemia and when it was inadequate no lesions were observed. The lesions were analogous to those observed in postoperative infections in man allowance being made for the differences in the type of exudation which is peculiar to rabbits and guinea pigs

The absence of lesions in the control animals showed that phrenicectomy alone is insufficient to

produce pulmonary infection

The paralysis of the diaphragm probably reduces the resistance of the lung and favors lodging of the organisms by slowing the pulmonary circulation. In man accidents have been observed after phrem cectomy for bronchiectasis tuherculosis and lung abscess (Sergent Guilleminet and Lowenthal) However the retention of secretions is a factor Accidents oever follow when the diaphragm be comes elevated after the operation

The experimental findings cited favor the theory that postoperative pulmonary complications are due in considerable part to the relative immobilization of the diaphragm which follows laparotomies par ticularly those on the upper abdomen It has been sbown that for a time the vital capacity may be reduced 30 per cent (Churchill and MacNeil)

ALBERT F DE GROAT M D

Grellets Bosviel P The Value of Measuring the Venous Pressure in the Course of Artificial Pneumothorax (De l'utilité de la mesure de la pression veineuse au cours du pneumothorax artificiel) Presse med Par 1030 xxxviu 1105

In most patients treated by poeumothorax the heart supports unilateral or even bilateral pulmonary collapse remarkably well and the venous and arternal pressures remain uochanged Today pneumothorax is not maintained to positive pressures and massive injections of from 700 to 1 200 c cm are no longer used. With the technique oow employed cardiac disturbances have become more tofrequent than in the past. Measurement of the venous pres sure rather than the arterial pressure especially in cases of poeumothorax on the right side allows the discovery of an unsuspected cardiac compression which may be easily avoided by spacing and reducion the insuffictions

In pneumothorax with rigid walls with adhesions restricting the heart or complicated by pleurisy and in partial pneumothorax with fusion an increase of the venous pressure will indicate according to its constancy a temporary mechanical di turbance which will disappear when the pneumothorax is relaxed or thoracentesis is performed or a lasting mechanical disturbance due to the pre ence of pleu rocardiac fusion or a certain degree of myocarditis In the course of pulmonary perforations the venous pressure gives exact information regarding the con dition of the heart

In a subject treated by pneumothorax the arterial pressure measured by the Vaquez Laubry and the Pachon methods to find the degree of the oscillo metric index gives interesting information regarding the tonus of the heart and vessels and hence regard ing the general condition but it is the venous pres sure which furnishes the most exact data with regard

to the manner in which the heart supports the

pulmonary collapse

In the author's studies the determinations of venous pressure were made an hour hefore and an hour after the insufflation. The insufflation never exceeded 400 c cm In most cases there was no or only slight acceleration of the pulse and respiration OI 210 subjects with unilateral pneumothorax which had been maintained for from several months to several years 8, per cent had no change in the venous pressure and only 15 per cent a temporary or permanent elevation of this pressure. Except io aged subjects with sclerous le ions an increase in the venous pressure in pneumothorax is due not to disturbance of the penetration of the blood in the collap ed lung hut to compression of the cardiac cavities and their vessels (venæ cavæ pulmonary artery) by excess insufflated air pleurisy or pleurotreated by Sergent there was no increase in the venous pressure when the terminal intrapleural pressure was negative. However in 10 of 12 cases

in which insuffiation was followed by dyspnera flashe of beat or palpitation the venous pressure was raised from 15 to 18 cm although the pleural pressure was negative. When the amount of air insufflated was decreased the venous pressure be came normal

pulmonary sclerosis with attraction of the medi-

In the majority of a large number of patients

In cases of even very marked dextrocardia and sinistrocardia the enous pressure was usually normal Deviation of the mediastinum tot ard the diseased side is found in pneumothorax with ad hesions. In such cases measurement of the venous pressure will disclose the presence of cardiovascular disturbances before they are manifested by clinical

astinum

In 2 cases in which the pneumothorax was partial and the venous pressure elevated the venous pres sure became normal after the insufflations were stopped. In 3 cases in which relaxation of the picu motherax did not change the venous pressure the prognosis was unfavorable because of the probable e istence of a certain degree of mediastinitis or myocarditis

In the cases of 2 tuberculous women in 1 hom bilateral pneumothorax vas induced by the injection of 150 c cm of air on each side in the first days of the puerperium the venous and arterial pressu e determined before and after the induction of the pneumothorax were the same. In 2 cases in which blateral pneumothora was induced in a period of fifteen days with insufflat ons of from 300 to 400 c cm of air on each side the venous and arterial pressures the pulse and the respir tion were not noticeably changed at the third insufflation when the total surface of the lungs had been reduced one half Of a cases in which b lateral pneumo thora was m intained for more than a year the venous pressure was normal and the arterial pressure low in 3

I ffus one and pleuropulmon ry scleroses even tho e with med astinal thraction are quite often well support d but when dyspaces symptoms ap pear it i an er or Iways to consider the pa tients as subjects of pulmona y disease alone and to overlook the heart condition. The author re po ts 5 cases of spontaneous pneumotho av and 3 of perforation n the course of therapeutic pneumothorax (2 momentary and 1 with a valve fistula) From these he dra s the following con clusions

r Sudden irruptio of air into the pleura producing total pulmona y collapse even when it occurs on the right side may have no effect on the venous and arte ial pressures

2 A m mentary perforation in the course of therapeutic pneumoti orax seems to produce no change in the venous and arterial pressures

3 In a case of large fistula associated with a pleural pressure about o the arterial and venous pressures ere not changed

4 The venous pressure rises when there is ex tensive effusion or when the intrapleural pressure is

markedly positive (valve pneumothorax)

5 Elevation of the venous pressure is due most often to a purely mechanical cause such as compression of the caval vessels the pulmonary artery or the right cavities of the heart. In some cases in volvement of the myocardium may be added

In the cases of 2 young girls with mitral stenosis who presented no cardiac symptoms the venous pressure remained normal during pneumothorax

treatment

In some cases of pneumothorax the roentgenoscopic examination of the heart and its vessels is quite diff cult and becomes almost impossible when pleurisy or pleuropulmonary scleros's develops Under such circumstances measurement of the venous pressure combined with that of the arterial pressure will be the hest means of determining card ac function The electrocard gram is a much more accurate under of the deviation of the beart than the orthodiagram In the study of 30 cases Grellety Bosyiel found marked displacements of the heart well supported

Léon kindberg M and Monod R Th Su gical Indication in Pulmonary Suppurati n as Presented in Three Cas s (Les die t ns hru g ales d s le s pp att pulmo Ap pos d t berto) Bill i mêm S c mêd d h p d P 193 xl 643 A D DOS

The authors state that they have gradually come to realize the inadequacy of most medical measures in cases of pulmonary abscess and to regard surgical interference as the treatment of choice

The problem at present is to determine the operati e indications and the type of operation to

be performed in a given case

Ivo types of lesion must be distinguished localized abscess and diffuse suppuration (pyosclero sis of Coguelet) These two lesions indicate two types of operation the first pneumotomy a d drainage and the second excision Ti o illustrative ca es are cited

The first case was that of a robust and very active man thirty five years I age who vas taken with violent chills a d high fever Because of the absence of definite local signs treatment for 1 fluen a was gi en There vas a mucop rulent e pectoration

hich was said to be usual with the patient as he had suffered for years with asthmatic attacks By the si teenth day the clinical picture was that of an ext emely grave general infection and slight duliness could be detected on the right side just helow the clavicle \ ray examination showed a lirge ca ity contain ng fluid and air in the middle po tion of the lung and extending to the a illa and clavicle

Operat on for the establ shment of drainage was helie ed indicated not because of the size of the cavity but because of the gravity of the infection The operation consisted of two stages-preparation of the chest wall and incision of the lung. In the first stage liberal resections were performed on the second and third ribs and deep sutures placed through the lung and pleura at the angles of the incision The breach was then packed with gauze and a metallic suture introduced to serve as a guide for subsequent roentgenograms. In the second stage of the operation which was performed eight days later after pleural adhesions had formed the lung was opened with an electric knife. The incision led to the floor of a large abscess Convalescence was complicated by gangrenous inflammation in the cavity and acute nephritis with ordema but a complete cure resulted

The second case reported was that of a man thirty years old who was also seized suddenly with chills and fever The character of the sputum indicated a pulmonary abscess but both the physical and I ray findings indicated simply a consolidation of the left lower lobe Serotherapy injections of neosalvarsan and trypaflavine and bronchoscopic treatment were followed by periods of improvement but as aggravation of the disease continued opera tion was decided upon. The chest wall was prepared as in the first case except that in this instance the eighth ninth and tenth ribs were resected. When the lung was opened in the second stage the lower lobe was found occupied by innumerable gangrenous pouches between which were bands of sclerosis Slices were removed from the lobe with the electric knife After a series of six operations in which the entire lower lobe was removed a complete cure was obtained

In a third case in which there was a very large pulmonary abscess without extremely grave general symptoms expectant treatment was followed by

complete recovery in six weeks

The authors have little confidence in ant gan gene serum or other remedies and have found bronchoscopy phrenicotomy and pneumothorax usually inadequate. They state that in about 30 per cent of cases recovery results spontaneously In the absence of serious general symptoms operation may be delayed but the delay should not exceed eight weeks.

For the treatment of diffuse suppurations nu merous operative procedures have been suggested Tbe one stage lobectomies of Lihenthal and Robin son have a mortality of from 40 to 50 per cent and under many circumstances cannot be performed Cauterization in several stages according to Graman s technique is a more promising method but is a rather blind procedure and frequently followed by the general symptoms associated with a burn By means of the electric knife excision of the lung may be realized in stages without great risk and with precision

For all of their chest surgery the authors employ general ethyl chloride anæsthe ia

ALBERT F DE GROAT M D

apin F External Bronchial Fistul's Following Operation for Hydatid Cyst of the Lung (Les fistules bronchiques extérne apr operat on pour lyste hydatique du poumon) Bordea ix ch r 1930 No 1 3

Fistula is an uncommon sequela of operation for hydatid cyst of the lung In 229 cases reported by Gumbellot in which such an operation was per formed this complication developed only 9 times The fistule were of the bronchocutaneous type (that is to say without an intermediate pouch) and caused little or no inconvenience to the patient Only i fistula was operated upon The mildness of the disturbinees caused by the fistule is due to the fact that the bronchus involved is usually small most hydatid cysts being located in the periphery of the lung

Fronchial fistulic communicating with the exterior through a cavity present the same pathological changes and problems of treatment as those follow ing empyema or lung abscess. The special dangers he in the persistently suppurating cavity

In a third type of bronchial fistula the bronchus communicates with a cavity and there is no external

opening

In hydatid infection of the lung a communication custs between a bronchus and the hydatid cyst be fore operation is performed. The important factor in the failure of a fistula to close is probably the state of the capsule immediately about the wall of the mother cyst. When the capsule is selerotic collapse of the cavity is hindered.

Most simple bronchocutaneous fistulæ close spon taneously after from a few months to a vear and a half. When they demand operation a cone of cica tricial tissue may be reserved and the fistula closed by a pursestring suture and covered by a flap. In order to prevent tension the flap should be sutured only partially.

When a cavity co exists the treatment usually in dicated is that of chronic empyema i.e. thoracoplasty. Occasionally however cavities have been successfully filled with muscle flaps and omentum (Lardennois). ALBERT F. DE GROAT W.D.

Note: Representation of the Bronchus of the Br

Kramer has been able to find only five cases of bronchal adenoma reported in the literature. The tumor bas its origin in the ducts of the mucous glands. The treatment indicated is endoscopic sur signal removal if this is feasible radium implantation coagulation or a combination of these methods kramer reports two cases giving the findings of microscopic examination of the tumors and the results of treatment.

# Foster L C The Treatment of Acute Empyema Thoracis to n S rg 930 xcm 212

A diagnosis of empyema does not necessarily con stitute an indication for immediate operation Sud den change from a normal negative intrathoracic

## SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

B n roft F W Painful Postoperati e Abdominal Scars 1 cl 5 g 193 v 89

The author bele es that abdominal measons are responsible for injuries to nerves with subsequent neuroma format on or neuritis mo e frequently than is generally suppo ed and that such injuries a cotten diagnosed as postoperative adhesions. The injuries are probably often caused by ligation of nerves with blood vessels.

The diagnoss of neuroma may be made by testing out the sensor, distribution of the nerve and by temporarily blocking the nerve by injecting procaine hidrochloride. In right rectus incisions the nerve blocking is accomplished by injecting the procaine beneath the fascia of the right rectus muscle.

In 1 nonsforabdominale posure should be planned to avoid trauma to ner es I he tendence, has been to attempt to follow muscle pla es an I trequently to sacr i ce nerves although it is kno n that in the ab ence of infection muscles heal el

The author believes that I henever possible income through the right rectus muscle should be a outded. If the surgeon prefir an incision to the right of the median his for e plotation or for better app oach to the append the kammeter modification; preferable to the usual right rectus; crass When the rectus is drawn to the mer all side the nerves can be easily dentified and retracted up and down so as to allow satisfactor; e posure and if sacrifice of a nerve is necessary it can led new der the eye with utunnece sary figation. Woreo er in this type of incision deep cypic travessels re not encountered, theref e the eye is the world where for the results and the results of the same the same transfer of the same trans

Ut per o lover paramed n inc sions are s ti fac tory becau e they do not encounte vessel or nerves

of much importa ce

The McBurney and the low I fa senst eline sion are ideally planned to avoid a arma to the ne ves. The kocher incision for e posu e of the gall bladder is as ociated with the 1sk funju ing nerves but the danger is less than that associated with the right rectus ner o

Transverse abdomin I inc ions exte ding eith r to or th ough the ectus mu cles encounter fewer nerves than lateral vertical inc ions

HOLARD & MCKNI T M D

G He W E nd L Mesu ie A B Late Results of th Li ing Surure Ope Inguinal He nia C ed H i J 193

The autho s reve the results of ne rly 200 operations in v h ch they u cd str ps of fascia lata n the rep is of h rn a le ope ations vere such as to give

the method the severest possible test. The fit 150 cases ere til ose of soldiers ho ha la re urrence after 1 2 or 3 operative attempts at cure. The hon n faitures so far number only 6 In 1 case a recurrence hich developed within ten days sh wed that it is very important to secure the ends if the lascual strips with fine sill. Indirect hermin, in which the suit es must bear the bruint of the strain the spaces bety cen the sutures m si be small to prevent protrusions. One of the failute ser sewed as due to infection. In many of the cases the correct on of the horize was extremely difficult and vould by the beaung o sible by any other method. The author shave deviated 1 tile from their or gial [technique].

HARRY W F NE M D

Nap flow P Occult Ep gast is Herni (Hem

Among seventy seven surgically treated as s of herna th ough the linea alba in the egastnim the e were fourtiera (two those of men) in \(\) hick the prolapsed fait; its us lid not penet te through the \(\) poneurous but entered the latter through internal fissure and assumed a interst tal po tion. Hern \(\) of the latter type may be called occult ep gast in hernix.

The cleal symptoms of occult epigastrichem are analogous to those of manifest epigastrichem a—quan due to pressure or movement dyspeptic man festations o colicky pain. The difference b tween occult epig strichemic and manifest epig strichemiz consists only in the absence in the former of a ralepable tumor.

The nesson for the reduction of th occul tepras at chern are a straight median incison from thee at 1 m process to the umbilicus. After the viscera have been cartefully examined to be sure that their are n good cond tion the opening in the aponeut os should be cartefully inspected as tag of the proprional fail and the fail of the ligamentum terristend to intrude bere. These tags must be removed a diethe in a alba re enforced by or diapping the antirory all of the rectus sheaths. This treatment gives good and permanent results. M.P. Fr. (2)

Lac y J T The Prentin of Peritoneal Adhe tons by Amniotic Fiuid 1 S g 93

Lace, rep its the results of in est gat os n the alue faminoth fluid in the p evention fpe ito neal adhesa n which vere carried out on thi yh fe rats in dise en dogs. In the first group of experments a number of areas on the small int sit e about em long were sea fied with a kin be blad i the second group the e tre small intestin and the cac m ere rubbed with guize in a the dysoup minimal trauma was produced by rubbing with gauze three points on the intestine about Ycm long in a fourth group chemical peritonitis was produced with incture of iodine in a fifth group the traumar produced in the third group was repeated for study of the time and mode of the formation of adhesions and in a sixth group enterotomy was done

In only two of twenty six animals treated with ammotic fluid which survived for a sufficient period was complete absence of peritoneal adhesions

observed

Smears taken from the peritoneum twenty four seventy two and one hundred and twenty hours after the trauma showed a reduction in the number of red blood cells and an increase in the macrophages especially those of the polyblast type in the treated animals.

It appeared that the amniotic fluid had no un desirable effect on catgut suture lines and that it did not prevent the formation of protective ad hesions

The author draws the following conclusions

I Ammotic fluid is apparently harmless when

introduced into the peritoneal cavity

2 It seems to lessen the ooze from denuded surfaces and to stimulate the peritoneum to a more powerful defense reaction

3 It cannot be depended upon to prevent ad hesions although it possibly may modify their density

Mathieu P and Marchand G Early Surgical Intervention in Acute Pneumococcal Peri tonitis and Its Results (Linter ent on chirur cale precoce dan les péritonites aigues a pneumoco ques et ses r sultats) Bill et mê i 5 nat d et 1 130 a 1894

The authors report a case of acute pneumococcal peritonius in a woman flirity three years of age to show the difficulty of diagnosis in the first few hours. In the cases of children an error in diagnosis in made even more frequently than in the cases of adults. After early operation in peritonius due to pneumococci death frequently occurs within from twenty four to forty eight hours. If recovery takes place it is often preceded by long continued suppuration persistent fever and pyæmic conditions such as pericarditis or purulent pleuris.

Acute pneumococcal peritoritis in its typical chinical form can be diagnosed if the patient is a girl from two to ten years of age. The beginning is often sudden with diffuse abdominal pains and somiting a rapid rise in the temperature abundant somiting and early and abundant diarrheca (from ten to

twenty stools a day)

There are case in which the definite localization of the abdominal pain on the right side will lead to the diagnosis of appendicitis. Under such circum stances operation 1 performed early. If the appendix appears normal the pus should be examined for pneumococci. Davioud and the authors suggest extensive drainage as well as anti infection therapy.

Early laparotomy does not always prevent second ary localization of the pneumococcal pus

The means of diagnosis provided by the laboratory can rarely be utilized in emergency cases but exam mation of the blood for the pneumococcus is of great and

In the discussion of this report Picor agreed with the authors regarding the difficulty in the diag noss between acute peritonitis with pneumococci and acute appendictis in the first hours but stated that acute cases should be operated upon and if the appendix is seen to be normal a large drain may be inserted in the cul de sac of Douglas There should be no exploration and the operation should be reduced to the minimum Large amounts of anti-pneumococcus serum should be injected through the drain and under the skin

In concluding the discussion Mathieu stated that he has encountered two types of cases—those in which the peritoneal suppuration was abundant from the first and those in which it was unperceived in the course of an incision for appendicectomy.

PACE

## GASTRO INTESTINAL TRACT

Ploos van Amstel P I Acute Dilatation of the Stomach and Trauma (Akute Magenerweiterung und Trauma) W tt a d Gren geb d Med u Chi 1930 1 627

Acute dilatation of the stomach following trauma has not been described frequently in the literature. The author reports two cases because they show the particular circumstances necessary for the development of the condition and the extraordinary effectiveness of the Schnitzler treatment.

The first case was that of a twenty one year old girl of the Basedow type with a scrofulous and nervous appearance and definite enteroptosis who complained frequently of distention in the gastric region and belching symptoms which definitely indicated vagotoma. While cleaning she fell from a low ladder striking the stomach region against the back of a cbair. She immediately became ill and within fifteen minutes the epigastrium was greatly distended. She vomited profusely although she had drunk only a cup of tea that morning Within a short time her pulse was small and irregular and her respiration superficial. A diagnosis of acute

The second case was that of a twenty three year old patient with vagotonia who developed gastric dilatation after receiving a punch in the region of the stomach. In this case also the assumption of the prone position was quickly followed by recovery

dilatation of the stomach was made. When the patient was placed in the prone position recovery

resulted rapidly

As the conditions to which acute gastric difatation has been ascribed are most varied it seems justifiable to assume that they are merely the excit ing factors rather than the basic cause. The dilatation occurs only in persons with a disturbance of the vegetative nervous system. In the presence of such

a disturbance it may follow a blow in the gastric region a heavy meal the application of a plaster corset anizathesia ureteral catheterization the insertion of an indwelling catheter gastro enter

ostoms or an operation for abdominal herma. Early diagnosis which is most important is not difficult. The symptoms are meteorism of the opigastrium with flatness of the rest of the abdomin biliary but never faculent vomiting followed by a change in the distention great thirst anima dryness of the tongue a change in the appearance of the eyes cyanosis superficial breathing a small pulse a subnormal temperature and coldness of the

extremities

The only effective treatment is the adoption of the prone position as advised by Schnitzler

STREISSLER (7)

Gi fray Vi and Amy P Certain G st oduoden f Hæmorrhage Reg ding Which Little Is kn wn (D qu lq hem g sastr d dê a 1 mal c ) P til 1 sastr

The authors discuss the types of hæmatemesis and melæna which for vant of a clear conception of their cause are commonly designated as idiopathic neuropathic or primary. They state that in

estigations have shown these hamorthages to be due frequently to ci culstory disturbances brought about by ahnormal cond tions in regions adjacent to the d gestive tract. Among the most common causes are disturbances in the gastrosplenic circulation due to dis ase of the spleen and congestion surrou ding the gastro intestinal tract brought about by adhe sions anomal es of the colon colonic stass an improperly performed appendectomy. chronic appendiction of all advised operation

HA LD C M CK M D

Camp J D Furth Obs ation on the Direct Roentgenological Signs of Ga trojejunal and Jejunal Ulcer R d i gy 93 74

The diagnosis of gast ojejunal or jejunal uleer is one of the most pe pleving that the roentgenologist is called on to make as the examination invol es structures that have be not highed by surgical interention. Atypical operations may complicate the usual appearance and suggest a lesson when none is pesent.

p esent Patholog cally gastrojejunal and jejunal ulcers simulate in form the usual types of gastric ulcer of a series of cases seen at the May o Chine in hich a secondary ope atton I llowing gastroenterostomy was required jejunal ulceration was found in as it one stomal ulcerat in in forty eight and gastrojej units without actual ulceration in eight

The direct roentgenological signs which individually permit positive diagnoss of gastrojeju alor jejunal ulicer tion are the presence of an ulcerniche persistent deformity of the stomach stomaor jejunum the pience of a gastr jejunocolic fistula and closure of the stoma. The significance and

frequency of a niche or crater in the jejunum or stoma as a positive sign of ulceration a coften und estimated The niche is undeniable evidence of disease and may be seen in about 60 per cent of cases Deformity of the stomach stoma or jejunum produced by the associated inflammatory react on is the most common change accompanying a gastrojejunal or jejunal ulcer The deformity of the stomach usually seen with ulceration at the stoma appears as a puckering of the gastric contour about the site of the opening with deformity of the ruge When the les on is wholly within the ierunum de formity of the stomach may be absent. Defo mity of the jejunum may be localized or diffuse. It occurs most commonly in cases of jejunal ulcer but may he associated in lesser degree vith ulceration at the stoma In the absence of a mal gnant lesson the presence of a gastrojejunocolic fistula 1 e idence of precedi g jejunal or gastrojejunal nice ation. Be cause of the high incidence of this complication and the risk attending the operation for its cure early recognition of the causative les on is of cons derable importance Complete occlusion of a previously functioning gastro enterestomy opening in the ab sence of malignant discase is prima f cie evidence of gastrojejunal ulceration

Si ce a positive diagnos as based on evide co for multimetion or the demonstration of abnormality in the outline of the stomach stoma or jet num the e aminer must assume that in the beg nuning the gastroenterostomy opening was anatomically c r erect and functioning properly. A kno ledge of the surgical technique employed in the particular case is of considerable assistance.

The signs referred to have been the bass for the roentgenol gical d agnosis of jeginal and gasting jeginal such as the state of the first of the fir

W fss A G and flub ter C TI Path ogenesis of Ga trodu denal Ulcer (S 1 p th ge d 1 e g t d ode ) 1 l f b lg d

The authors report expe iments performed a dogs in an attempt to discover the case of gastro discover the case of gastro discover the case of gastro discover the case of the discover the case of the

junce by the reflux of duodenal fluid into the stom ach. However in examining the gastric juice before and after their operations the authors found that there was little difference in the acidity. They be lieve that the duodenal reflux is not great enough to neutralize the gastric juice and serves merely to give the mucous membrane an alkaline coating which protects it. They conclude that the ulcers in the experimental animals developed as the result of the elimination of this coating by the operation.

In the second set of experiments derivation of the bile alone was obtained by sectioning the common duct between two ligatures and anastomosing the gall bladder to the ileum 30 or 40 cm from the cæ cum By this procedure no disturbance of calcium metabolism was brought about such as would be caused if the bile were allowed to flow out through a bile fistula. The operation was followed by acute in skimmtion of the mucous membrane of the antrum

and duodenum a sort of preulcerous stage

These experimental conditions are rarely if ever found in man a fact explaining who chronic uleer generally develops much more slowly in clinical croses than in the experiments reported. The cause of disturbances of the duodenal reflux in man has not been discovered but it is known that the mothlity of the human intestine is very easily disturbed. Ulcers generally occur in persons with defective alimentary hygiene persons who drink all cohol to excess or over eat and nervous persons in whom the least irregularity in det affects peristaliss. Constant irritation of the walls of the stomach and duodenium upsets normal motility.

Extensive gastrectomy seems to be the best treat ment for ulcer because it removes a large part of the mucous membrane of the fundus which is acid so that alkaline protection is brought about more casily. Peans technique is better than the others because it favors the free reflux of alkali by shortening the distance between the stomach and the papilla of Vater. The authors have never seen a recurrent ulcer after free resection followed by anasto mossis by the Pean or Billioth I method

AUDREY G MORGAN M D

Konjetzny G E The Inflammatory Basis of the Development of Typical Ulcer of the Stomach and Duodenum (Die entwendliche Grundlage der typischen Geschwersbildun im Magen und Duo denum) E gehn d inn M d Kinderh 1930 XXXI 184 1930 Behn Spinger

This report is based on a minute examination of more than 500 resected specimens. After reviewing various theories of ulcer development (the chemical theory of Virchow the infarction theory of Hauser and the traumatic theory of von Bergmann) the author discusses in detail the inflammatory theory which he accepts. His most important conclusion is that the typical ulcer of the stomach and duodenum begins as an erosion of the mucoss.

In the solution of the ulcer problem there are 2 important questions to be answered I Does the

gastro intestinal ulcer arise in normal or already diseased gastric and duodenal mucosa? 2 Is the ulcer a simple peptic corrosive defect as believed by Virebow Hauser and von Bergmann or is it an inflammatory ulceration preceded by inflammation of the mucosa?

In the anatomical study of gastric resection specimens which were fixed while still warm the author and his coworkers always found a more or less pronounced gastrin. This was most pronounced in the antral portion. Also in specimens of duodenal ulcer they found gastritis in addition to the duodentists. Moreover in cases of ulcer of the stomach duodentists is often present in addition to gastritis. The gastritis is most pronounced in the region of the pyloric glands. It is usually marked also in the contiguous glandular region of the fundus whereas in the rest of the glandular region of the fundus whereas in the rest of the glandular region of the fundus.

there are few or no gastritic changes

The most important question to be answered is whether the gastritis and duodenitis are primary or secondary conditions Their primary nature is suggested by the fact that the mucosa affected by acute or subacute gastritis nearly always shows superficial inflammatory defects (erosions) which are undeniably the result of inflammation of the mucosa That acute and chronic ulcers may develop from these inflammatory defects was proved by the author's material which clearly showed all stages of development of the typical gastric ulcer from the initial erosion to the first stages of chronic ulcer Absolutely convincing were the cases of ulcerous gastriti and duodenitis in which chronic ulcer was absent and the stages of gradual transition between the inflammatory erosions and acute ulcers were noted The author was unable to discover in the erosions any evidence of an action of gastric juice or of a role played by animuc necroses bemorrhagic infarcts epithelial necroses or superficial eschars He draws the following conclusions

r The first phase of ulcer formation has no

relation to infarction

2 Gastroduodenal ulcer never develops in a normal gastroduodenal mucosa. It develops al ways on the basis of a gastritis or duodenitis

3 The latter conditions must be considered the anatomical basis of the typical clinical symptoms of ulcer

Konjetzny next takes up the question as to whether the gastric junce can attack living tissues and thereby play an important rôle in the develop ment of crosson and ulcer. He concludes that in the origin and development of crosson an effect of the gastric junce in the sense of corrosion or digestion cannot be demonstrated. Even in cases with clinically demonstrated hyperacidity he has never been able to find any indication that the gastric junce is able to corrode or otherwise injure the living epithelium or that such a corrosion or escharotic action can produce an inflammatory condition of the mucosa. Moreover be found crossons similar to those under discussion in parts of the intestinal

tract which are inaccess ble to the action of the gastric juice

In the treatment of ulcer the ch ef essent al is not neutralization of acidity by the administration of alkal es but the relief of the inflammatory changes of the mucosa and the muscular disturbances result ing therefrom in other vords the therapy of ulcer is the therapy of gastritis. This is true particularly in the early stages of the disease. I roper medical treatment (a bland diet anticatarrhal remedies etc) instituted at the right time is unquestionably the best prophylactic treatment of typical chronic ulcer In the chronic phases of the disease a cure by internal medicine is pract cally hopeless

Saunders E W

A Bacteriotogical nd Clinical Study of Gastric Ulc r 1 Facts indicating that the cause of ulcer of the

stomach is infection are summarized by the author as follo vs \ streptococcus h s been isolated from nine

teen resected gastric duodenal and gastrojejunal ulcers and proved t be identical and specific by different cultural tests and by aggl timition or ss agglutination and agglutinin bsorpti n

Its agglutinocenic and antigenic identity with similar strains producing ulcers of mucous mem bra e and skin and its n n identity with strains from foci of infecti n and appendicitis and chole cystitis have been d monstrated

3 Patients suffering from gast ic ulcer ha e the specific agglutinins of this organi m in their blood serum whereas pat ents suffe ing from other types of streptococcus infection fail t agglutinate it or

aggluti ate it in only low titre 4 The organism is apparently present in the les on in immediately prepa ed Le aditi tissue sec

The organ sm undergoes di ociation S ( iru lent) to R (non virulent) under artife al cultiva t on and the po s bility th t it may do so al o u tito has been demonstrated

6 The S (virulent) form ill not gro in low dilutions and the O (ntermediate) f rm rap dly becomes R (non irulent) unde bile culti vation

7 Surgical procedures s high retu n to the ulcer bearing area g e the best clinical results

8 Marked lact c acid format n by the st epto coccus has been n ted a d its rel tionship to car cinomatous degeneration suggested

Pauch t V and Luquet G Th Surgical T at ment of Ul of th Supe i r Thi d of the Stomach (Groove R cett n) 5 g Gy Ob 1 93 1 367

Pauchet describe hi technique of groove resec tion of ulcers located between the cardia and the boundary of the middle and upper thirds of the stomach along the lesser curvature. Such ulcers are found in 19 per cent of c ses and are difficult to resect by the usual methods

After liberation of the stomach ligation of the co onary and right gastro epiploic arteries and sec tion of the duodenum the stomach is divided al ne a line which starts from the greater curvature at the junction of the antrum and corpus and passes ac o s to vard the lesser curvature. After crossing t o thirds the vidth of the st much the direct on I the incis on changes sharply to run parallel lesser curvature encircle the pathological tissue and end at the lesser curvature between the ulcer and the cardia. The resection may be done in one stage or the transverse resection may be done first and the part of the lesser curvature adjacent to the ulcer removed after and or the ulcer bearing area may be removed and the opening repared before the transverse section is made. In the reco struction the curved part parallel with the lesser curv ture is sewed in t o or three layers starting from above the gastric groove being thus converted i to a tube The pyloric end may then be anastomosed to the duodenum as in the B liroth I operation or the duodenum may be closed and the opening anastomosed to a loop of lejunum as 1 the Pólya peration

The autho has perf rmed the operation f rts four times in the last six years, with a mortality of 15 pe cent and good results in the remainder

M URICE L DALE M D

Ackm n F D Multiple Adenop p liomat of th Stomach with the Report of Case Sho ing 1 ying D grees of Malign ney C ad 0.3 39

The author adds another case to the eighty eight cases of multiple gastric adenopapillomata which have been reported in the literature. The condition seems to occur with about equal frequency in males and females. Its average age incidence is hits three

y ears It is apparently of inflammatory or gin although familial tendency to ard its development ha been reported and some observers have suggested that it may be congenital

The lesion is class fied patholog cally as polyade nom plupe r and polyadenomae rappe case reported by the auth r v as of the latter type of which only seven cases have been reported

previously There are no characteri tic symptoms Ep ga tr c pain is f equent but ha matemest may be the first sign The roentgenogram is the be t diagnostic a d but in some cases may be m le ding Achlo had to is practically a co stant find ng and hen c mbi ed vith my vo rhoca is conside ed very suggest e Ma I gnant transformation isvery common It i ra ely multiple but the author's case sho ed in add ti n

to a large ca cinoma a mal gnant change in the st lk of a pedunculated adenopapilloma at the pylo u The treatment s surgic 1

1 C LL TT M D GEOR

Qualn E P Prophylactic Gastrostomy North
uest Med 1930 xxix 346

The author recommends the performance of simple gastrostomy in abdominal operations to insure a smooth postoperative course. Of forty, seven cases which he treated in this way the convalescence was unusually smooth in all and there were no disturbing sequelike except in one in which a gastric carcinoma became secondarily engrafted into the sinus. Quan considers the procedure of great value in the prevention of paraly tie flews. A F=24 catheter is attached to the opening in the stomach wall 2 cm from its in serted tip by an inverted mattress suture. The contiguous gastric wall is then gathered about the cathetr by a single pursestring suture ado the tube fixed against the abdominal wall by tying tightly about it externally a twisted gauze sponge.

JOHN H WOOLSEY M D

Berard L. and Heitz J. Surgical Treatment of Intestinal Tuberculosis (Considerations sur le traitement chirumical de la tuberculose intestinale) Lyon chr. 1030 VVII. 73

All varieties of intestinal tuberculosis are seen very frequently in pulmonary tuberculosis. Kahn found marked lesions of the intestince in 63 per cent of his cases of pulmonary tuberculosis and Brown and Sampson reported intestinal lesions in from 50 to 70 per cent of their cases. The most frequent form is ulcerous tuberculosis which is very difficult to dagnose. This may begin with failure of the general health gastric disturbances abdominal pain intestinal hemorrhage or diarrheae. A definite diagnosis

requires a roentgen examination
Intestinal tuberculosis was formerly regarded as
necessarily fatal but today with early diagnosis and
proper treatment it can often be cured Medical
treatment however is only palliative Hebotberapy
and the use of the ultriviolet rays are still advocated
by some but the authors regard them as only adjuvants to surgical treatment. They state that when
the diagnosis is doubtful an exploratory operation is
justifiable and should not be deferred too long
When ulceration of the intestine is found the ideal
method of treatment is resection of the affected part
When resection is impossible on account of a poor
general condition palliative entero anastomosis
must be performed with or witbout exclusion. In
many cases this has brought about great improve

Denéchau D and Prieur R Reflex Heus in the Course of Reno Ureteral Lithiasis (Lileus reflexe ui cours de la lithiase reno ureterale) P esse méd Par 930 xx iii 53

AUDREY G MORGAN M D

The authors report two cases of Ileus developing in the course of renal lithiasis. The condition begins suddenly and may be provoked by fatigue. The first symptom is sudden severe pain which often occurs first in the lumbo abdominal region and rapidly becomes localized in the flank. In three fourths of the cases it becomes localized on the left

side Its irradiations vary. The second symptom vomiting (at first alimentary and then aqueous) was lacking in siv of twenty one cases. More char acteristic is the retention of frees and gas. The fourth functional symptom (absent in six of twenty one cases) is dysuria.

Flatulence sometimes general and sometimes localized with a loop clearly protruding in the midst of the swelling develops in all cases. A promoence may be present in the flank and iliac fosse on either side but is found more frequently on the left side. I cristallic contractions may accompany the painful paroxysms. The varying of these signs from day to day is explained only by a mobile and variable spasm with segmental dilatation of the intestine. The general signs are not comparable with the intensity of the abdominal phenomena even when they persist as long as two weeks.

When operation is deferred the symptoms do not last longer than twelve days. The fundamental characteristic of the condition is the variability of the symptoms. The emission of gas is always followed by marked improvement. The responsibility of a ureterorenal reflex for the condition is suggested by the absence of a saburial condition of the upper digestive tract and of frecaloid vomiting. The urine should be analyzed every dry. Roentgenography may reveal a stone. The intestine and the kidneys have a common innervation from the branches of the sympathetic and parasy mythetic nerves.

In reflex ileus in the course of ureterorenal lithiasis operation is contra indicated. The pain should be relieved with belladonna and atropin by baths and by hot applications during the attacks and by the use of laxatives gentle oil enemas and injections of peristaltine and by pophysis extract during the calm periods. It is possible that rachinaligesia might te heve the pain and stimulate the intestinal musulature. Pace

Dull Acqua V The Roentgen Appearance of the Mobile Duodenum (Gh aspetti radiologici del duodeno mobile) Radiol p ed 1930 xvii 781

Mobile duodenum is not rare being found in 0.5 per cent of cases in which the small intestine is examined roentgenologically but it is not always easy to recognize. The author reports seven cases which he saw during the course of a year. He classifies the forms of mobile duodenum as (1) partial mobility affecting only the first part and the beginning of the second part of the duodenum and (2) total mobility.

In partial mobility roentgen examination majsho a double festoon or a complete scroll above the fixed portion of the descending part. When the supramesocolic part is free the duodenum appears to be inverted. The anomaly may be produced when abnormal motility is accompanied by a condition such as elongation of the hepatoduodenal ligament or pious of the liver. The elongation of the first part of the duodenum which is sometimes noted in these cases is an important finding of \(\bar{\cappa}\) ray examination.

26

When there is total mobility the duodenum may pre ent an almost normal appearance. However in most cases it is entirely on one side of the median line and anomalies in the position of other abdominal organs are noted

With regard to the importance of mobile duo denum in pathological conditions of the abdomen the author states that in some cases the mobility may result in stenosis because of the position of the duodenum or because of compression of the biliary passages Gastritis duodenitis periduodenitis and gastric or duodenal ulcer are frequently associated ith the anomaly MARTIN J DI COLA M D

Vis and R Extrabulbar Ulcer of the Duodenum (Co t but lla co c nza d ll lcera trabulba e d l duod o) R d ol m d 193 p 608

The author re 10% the literature on extrabulbar ulcer of the duodenum and calls attention to the scarcity of clinical and roentgenological data on this les on He reports four cases of his as n in which the diagnost was confirmed at operation. In one it vas confirmed also by autopsy. The symptoms in these cases ero very similar to tho e of ulcer in its usual location in the first portion of the luodenum. The roentgen undings corresponded to those characteris tic of ulcer in other situations. They consisted of the presence of a niche stenosis of the lumen of the duodenum d sappearance of the duodenal folds and spasm opposite the ulcer The author discusses the differential diagnosis bety een extrabulbar ulcer and duodenal di erticulum dilated ampulla of Vater and neoplasm

Vi iam believes that if roentgenologists studied the entire duodenum with more care particularly in cases in which the clinical and roentgen findings do not agree it would be f und that extrabulbar ulcer of the duodenum is more common than the literature indicates C D HAAGENS N M D

Watson J II Acute Perforating Duodenal and Gatic Ulces B 1 31 J 93

The author reports his experience in 1 o cases of perforating gastric and duodenal ulcers hundred and to of the patients were males Fighty five of the males had an ulcer of the duodenum and 17 an ulcer of the stomach Of the 8 females 2 had an ulcer of the duodenum and 6 an ulcer of the stomach Most of the patients were in the third or fourth decade of life Watson believes that per forating ulcers especially of the duodenum are occurring more frequently in persons belonging to the artisan class

The perito cal reaction varies according to the length of time intervening bety een the taking of food and the occurrence of the perforatio longer the 1 terval the less the leakage and the less no lous the spilled material In cases in which treat ment is not given until s hours after the perforation there is usually gross infection

In discussing the diagnosis the author emphasizes the acute onset of agonizing pain. In early cases the pulse is slow and of good volume. The blood pressure is usually normal or slightly raised

As treatment Watson favors e ci ion of the ulcer bearing area division of the pyloric sphincter an proximation of the cut edges of the viscus inci i n at right angles to the long att of the gastroduodenal tract and closure in layers. He prefers l c l an asthesia supplemented if necessary with ether He closes the laparotomy wound without drainage but employs pelvic drainage for from twenty four to forty eight hours JOHN H WOOLSEY M D

Haggard W D An Enterogenous Cyst of the fleum Crusing Obstruction in an Infant S & \oti im 193 x 713

Haggard's case was that of a three weeks old girl the only child of normal parents She weighed o lb s oz at birth and was delivered normally When a week old she had lost 15 oz but at the end of another week she had gained 4 oz Five days later she weighed 8 lb 8 oz The loss in weight was attributed to a decrease in the mother's milk supply it about this time the infant sp t up an increasing amount of milk after each feeding. She was therefore given supplemental lactic acid milk but spit up more and more curdled milk and also bile after nurs ng The abdomen showed some dis tention and peristals a became isible Constipa tion was present but the enemata were highly col ored Dur ng the next twenty four hou a the baby vomited practically all of the milk taken the v sible peristassis became more marked and a smooth round movable tumor the size of a hen's egg could be palpated just to the right and slightly above the umbificus Enemata returned clear Rectal e am mation was negative. The stools were free fmm

blood and there was no fever The tumor was too large and too low for hyper tropluc pyloric stenos s and the vomiting was not of the projectile type. The diagnosis was intestinal obstruction of seventy four hours duration due to

a tumor At operation performed under novocain anasthe ta a blush gray rounded cystic tumor tle si e of a hen's egg vas delivered. It was stuated in the ileum i in above the ileocæcal val e The intestine was some hat collapsed below it and distended above it The tumor was intimately con ected with the intestine It appa ently o iginated in a hald fibrous area at the mesenteric attachment and ex tended up beneath the serosa and mucosa collaps ng the intestine with its internal pressure as it g ew and producing complete intesti al obst uction. As puration withdrew a th cl. tenacious gray sh mucus without any odor Cultures and smear were nega tive The tumor vas pened and is contents were evacuated extraperitoneally The cyst wall d d not commun cate with the ileum but e tended all around it When th excess of the cyst wall vas re moved the cy t sac being left v de open the con tents of the distended port on of the bowel were then seen to pass 1 to the collapsed portion A

partial constriction of the intestine still persisted but the lumen was adequate. The remains of the cyst sac were sutured to the lower end of the wound to facilitate a subsequent enterostomy should it prove necessary One hundred and eighty five cubic centimeters of the father's blood citrated

were introduced into the superior longitudinal sinus On the third day after the operation enemata were expelled with gas and fecal matter The obstruc tion seemed to be relieved but the child died at the end of the third day from pneumonia secondary to HARRY W FINE M D

peritonitis

Bargen J A and Weber H M Regional Migra tory Chronic Ulcerative Colitis Surg Gynec & Obst 1930 1 954

Twenty three cases of localized chronic ulcerative colitis were observed at the Mayo Chinic in the year 1928-29 Fifteen of the patients were males The duration of the symptoms before the patients came to the Clinic varied from four months to thirteen years The treatment included primarily the use of specific serum and vaccine Four of the patients underwent ileocolostomy one ileostomy another cæcosigmoidostomy and another ileostomy fol lowed first by colectomy and later by ileosigmoidos tomy Fifteen of the patients were cured three are doing well and five have died

The authors conclude that regional segmental localized or migratory ulcerative colitis is a form of chronic ulcerative colitis which is more difficult to recognize than the usual type of chronic ulcerative colitis and that as soon as the diagnosis is estab lished specific treatment should be instituted

Morrison L B The Role of the \ Ray in the Diag nosis of Carcinoma of the Colon New Er gland J Med 1930 ccm 441 Richardson E P The Diagnosis and Principles of

Treatment of Carcinoma of the Colon England J Med 1930 CCIII 455
es D F Diverticulitis of the Colon Its Reia

tion to Carcinoma New E gl nd J Med 1930

Cheever D The Results of Treatment of Carci noma of the Colon at the Peter Bent Brigham Hospital Boston New England J W d ccus 46z

MORRISSON The opaque meal is of value in demonstrating the motility and the position of the colon lesions of the proximal colon such as inflam matory processes in the cæcum and ascending colon (tuberculosis abscess certain types of carcinoma and gumma) diverticula and complete obstructions The barium enema however gives a more satisfactory picture of the lesion and colonic outline Proper preparation of the patient by the administra tion of oil and a cleansing enema prior to the ex amination is imperative. The roentgenologist should know the history of the case and in doubtful cases repeated examinations should be made

RICHARDSON Cancer of the colon whether ob structive or not is a favorable type for cure The difficulty in obtaining hetter results lies not in in operability but in operative mortality. In reducing the operative mortality the following principles of treatment should be stressed dramage of the bowel to overcome obstruction thorough mobilization of the howel hefore resection care in the preservation of the blood supply dramage of the suture line the avoidance of resection under certain circumstances and of immediate anastomosis by exteriorization of the growth before resection and in occasional cases. the formation of a permanent artificial anus

IONES The occurrence of bleeding with diverticu litis of the colon is so rare that it is far safer to at least explore all cases of supposed diverticulitis with bleeding than to treat them medically If all such cases were operated upon there would probably be an error of 8 per cent whereas if none were operated upon there would be an error of 24 per cent The result of the error of operating unnecessarily is not serious but the result of neglecting to operate means a mortality of 24 per cent

There is no longer any reason for considering re-ec tion in cases of diverticulitis because of the fear of carcinoma Recent statistics indicate that cancer is associated with diverticulitis in only from 1 7 to 8

per cent of the cases whereas the mortality from resection remains at from 12 to 22 per cent

CHEEVER A survey of the patients treated at the Peter Bent Brigham Hospital Boston for carci noma of the colon reveals that this localization of carcinoma is more favorable than any other in the abdominal cavity While some carcinomata of the colon are fulminating the majority metastasize slowly and give indications of their presence early enough for lasting relief if not a cure from opera tion The mortality of radical operation is less than 20 per cent A closer selection of cases is probably not justifiable though it would undoubtedly result in a decrease in the mortality. If radical operations for carcinoma of the colon were performed by only a limited group of surgeons the mortality rate would probably be reduced to 15 per cent or lower Appar ent involvement of lymph nodes which cannot be removed should be regarded as a contra indication to resection as the enlargement of ly mph nodes may he due to inflammation rather than the carcinoma In cases with severe symptoms palliative operations are well worth while though they carry a high mor GEORGE A COLLETT M D tality

Marmasse J Acute Appendicitis as a Sequela of Labor (Appendicite aigue des suites des couches) Presse med Par 1930 XXXVI 1 1122

The woman whose case is reported was a pri mip ara who had been examined without gloves and given an injection by a midwife whose hands had heen disinfected with gomenol After almost two days of labor delivery was effected with forceps. There was no perineal laceration and no bemor rhage and the uterus began to contract quickly The puerperium was normal for thirty six hours but at the end of that time the patient had a chill ber temperature rose to 39 8 degrees C and spontane ous and provoked pun develope I on the left side of the uterus at a distance from the uterus horn. The uterus was one fingerbreadth below the umbilicus and slightly contracted. Urinition as spontaneou.

Ice was applied to the interus uroformin vas ad ministered and an injection of pyoformin was given The next morning the patient had another chill and her temperature rose to 39 6 degrees C The pains had ceased completely since the expulsion of two clots but comiting occurred The uterus cas eon tracted and the cervix closed The pain then re curred on the right side about three fingerbrendths from the uterine horn Appendicitis as suspecte I With attacks of pain in the right il ac reg on and comiting the signs became clearer. During the next two days the general condition impr ed but on the sixth day after delivery there as a sudden attack of pain nausea and syncope with elevati n of the temperature. The pulse was 120 and eak Operation disclosed ordems of the peritoneum

When the peritoneum was opened about liter of pus flowed out. The appendi which was gangre nous and divided in the middle as remo eland the abdominal cavity washed out with ether. The uterus

and adnesa ere normal

For se eral days after the operation the gener I condition as p or On the 19hth day the drains vere removed. The pat ent lid not nurse her child for sixteen days but eight days after she r turn I h me she as able to gi e et all 1st nour shmoth.

Marmasse compares this case vith an unpublished case observed by Metzger Metzger as ealled t see a patient h had a temperature f 38 7 degrees C and as I sing blood abundantly the d vs after del very Her general conditio vas ve y p r Examinati n re eale i pl cental debri the size of n orange This as removed ice was applied to the uterus and 500 cm of physi logical salt solution vere administered subcutaneou ly In the evening the temperature as orm ! The next to days passed without inc dent but during the e em g of the third d y the temperature rose to 39 degree C and co tinuous om ting ccu red The ute us as not painful. The fa ies suggested perit nitis b t the lochs were odorle a Operation for appendicitis was performed under ether anasthesi | Îhe appen di contained pus. The pat ent left the hospit f in good condits n on the tenth d v The early ding oss as resp psible for the satisfactory result Appen d citi 1 the puerperium should be treated a if the patie t we e not in the puerperal state

T o cases are cited from the literatur P 1

Gordon W tson Si C L ca agne C d S Lockha t Mummery J P and Othe Cus ion on Radium in the Tre tm t t Car cin ma of the Rectum and Colon 1 A y S V d Lod 93 465

In this discuss on it was rather generally greed that in an operable case of carcinoma of the col n

in which the general condition is good surgery is much to be prefer ed to ad um irrad to in While radium vill occasionally arrest the go th of a far advanced inoperable carcinoma of the rectum its results in operable growths does not justify its u e in preference to surgery when the growth can be removed by operation. Sometimes paperally identical tumors react of liferently to radium o e type being ral osensitive and the other radionesistat Radium is indicated in the cases of old and feeble patients those with a complication precluding operation those who refuse to submit to col stomy and those. In our under the type years diagnostic that the properties of the propertie

Wost of the surgeons take got at in the discussion prefer interstitial therapy is the introduction of radium needles through the rectum or amus or intraperstone-tilly in gro. this at or above the recto gmood. The needles are filtered with from 8 to r mm of pletinum and are left in sit for from se or mm of pletinum and are left in sit for from se on to ten days. The use of radion seed is easier and associated with less danger of perstonitis for many the seeds is more apit to be followed by recurrence. The del. Irrad ation is a vell se cened dose applied fo a long time. Least satisfactory a irrad ation of the lumen of the bowel.

The prim ty irradiation is the most effective

When a gro th b rraged with rad um does not regress in two months a repet tion of the irrad ation ill be useles. If there is some retri gress on but

in the users I under its some terr grees on but on complete dispiperance further; addition; and the left of the complete dispiperance further; addition; and the left of the complete dispiperance of sep is a sell in rised radium film (frink) addition; and in the fourteen lays) rapid resolution of the gro the retort in the norm I epithelium a dilimited fibro is. The correct dispers som times quite difficult to obtain is the difference betteen the lethic dose frint made il and that for cancer cell i slight.

Af w patients hose cases ve erev ewed remai ed ell for three and a half years. In a greater number the harmorrhage pain and di charge ere dim ni hed

and the prog ess of the les on delayed

The best results f om treatment w th radium are

obtained in epitheliomata h ch sometimes di apperi very quickly. R dium irridiat on is nd cate I chiefi, in the c ses of old persons not suitable for operation. In such cases the results a e good and if the gro—thi—detected at fallye rly stage—there ill be no nece sty for a colo t my

In some cases radium may be used to treat the lne of sp ead of a neoplasm after local resection of the gr vtn H RY C S LT ST IN M D

# L Suef L F Fistul in Ano 3fed J 1 / 1

Practically every anal fistula f llo s an absect of the und region high his either in the entire ted of has been treated no rect! Approximately 37 per cent of patie tay ith anal list lie have be a subjected to pe ious operations.

Hippocrates recognized anal fistula and outlined a rational method of treatment for it Arderne (1307-1377) treated the condition successfully by

open drainage

It is essential to remember that the mucocu taneous line is at the point of greatest narrowing of the large bowel and is most sensitive to trauma and irritation. The internal sphinicer is a thickening of the circular muscular coat of the rectum without a separate nerve supply. The external sphinicer on the other hand, has an individual nerve supply and can be related voluntaris.

The levator and muscles form two broad sheets of muscle fibers surrounding the rectum posteriorly and interlacing with the fibers of the musculature of the

rectum and internal sphincter

The anal canal and lower portion of the rectum are surrounded by a pad of loose fatty tissus which is continuous with the cellular tissues of the ischio rectal fossæ There are no fascial sheets to serve as barriers to the extension of infection and a poor blood sumply is further emberrissed by the pressure

of the sitting posture

Anal fistula is more common in men than women and is favored by occupations requiring much sitting Its most common causes are ischiorectal abscess tuberculosis (15 to 20 per cent of cases) stricture of the rectum and foreign bodies A fistula practically always results from an abscess in the region of the rectum. As a rule the abscess has its origin in a tear or wound of the mucosa at the mucocutaneous junction from which infection spreads to the ischiorectal fossa. The abscess should be freely incised to its limits and unroofed by excising the skin of each quadrant formed by a crucial incision The cavity should be lightly packed with gauze to insure healing from the depths by granulation Subcutaneous submucous pelvirectal abscesses require adequate in cision and open drainage

In 102 cases of anal fistula Le Souef encountered 49 sumple direct fistulæ (21 anterior 23 dorsal 5 lateral) 42 horseshoe fistulæ (18 anterior 24 poste Tior) 4 pelvirectal fistulæ 4 lschiorectal fistulæ and

3 submuçous fistulæ

As a rule there is a history of abscess in the anal tegion which discharged spontaneously or following incision. After such evacuation a small opening with a more or less constant discharge usually persists. Pain is not marked. Digital and proctoscopic examination should be supplemented by \(\ceigm\) ray examination with a barium enema or the injection of iodized oil.

The treatment should be surgical as palliative treatment has little to offer Le Sourd describes the operative treatment in detail including the preparation and position of the patient the anasthesia und the instruments employed The operative procedures may be (r) excision of the fistula the wound being left open (2) incision of the fistula the wound being left open (3) excision of the fistula followed by suturing of the wound or (4) a combination of these procedures Possible postoperative

complications include harmorrhage urinary retention and incontinence. The after treatment should be directed toward obtaining healthy granulation from the bottom of the wound. Delay or non healing is due to inadequate operation incorrect postoperative treatment or complicating constitutional conditions. MATON COLINDER M.D.

### LIVER, GALL BLADDER PANCREAS AND SPLEEN

DeCourcy C and Thilss O Liver Function With Special Reference to the Sympathico Adrenal Response Test Ol o State II J 1030 v 1 669

In chronic liver disease the impairment of hepatic function is determined chiefly by the amount and distribution of scar tissue. In portal cirrbosis in which the fibrosis is so situated that it does not interfere with the compensatory hyperplasia that takes place functional efficiency remains high. When the hyperplasia can keep pace with the injury (as in the hypertrophic form) the prognosis is better. When the fibrosis is early and diffuse and interferes with hyperplasia childing the tissues in a vise like framework (atrophic type) function is greatly diminished and disturbances such as ob truction of the portal vicin soon result. In gummatous cirrhosis the pathological changes are localized or scattered and do not interfere with compensatory hyperplasia and do not interfere with compensatory hyperplasia.

Simpson and Macleod state that the liver glycogen is the only source of the blood sugar since muscle glycogen is converted after mobilization into lactic acid and the latter must then be synthesized into liver glycogen before it can supply the blood with

sugar

Cannon has recently called attention to evidence that the process of storage by segregation in hepatic and muscle cells is dependent upon the secretion of insulin. Removal of the pancreas causes the prompt appearance of hypergly cama and a reduction in the hepatic gly cogen reserves. The administration of insulin to sugar fed depancreatized do reduces the blood sugar to the normal percentage and causes gly cogen to accumulate again in large amounts in the liver.

In studying the relationship between the formation of hile and glycogen in the liver. Forsgrein noted that the glycogen was low when the bile was greatest in amount and vice versa. He found also that the glycogen is first deposited around the central vein of the lobule and remains there longest. This shows why in obstruction of the common duct, the glycogen content of the liver decreases.

The authors observed early in their studies that the glycogenic function of the liver is the pivot around which the other functions revolve and that when the liver contains a large reserve of glycogen it is less susceptible to degeneration

In the investigations reported by the authors the following determinations were made

1 The sympathetico adrenal response

The retention of bromsulphalein

The urobilin content of the blood (aeriflavine used as a standard as described by Blankenhorn)

4 The serum bilirubin (van den Bergh test) The bile acid content of the blood (modified Pettenkofer test)

The blood cholesterol

30

The blood platelets

Studies were made of normal persons persons with borderline conditions such as early cirrhosis and gall bladder discase without raundice and persons with marked hepatic disease

Before the sympathico adrenal response test was made the subject was given a full diet. Before breakfast on the day of the test a bfood sugar estimation vas made. Immediately thereafter 34 c cm of a 1 1 000 solution of adrenatin chloride was injected subcutaneously. After the injection blood was taken every fifteen minutes for one hour

and the blood sugar curve plotted In the cases of normal adults the curve usually rose to a height of about 30 40 or 50 mgm and often to 60 and 70 mgm in the first half hour and then deelined slightly to the hour point. The majority of the curves showed an average rise between 30 and 40 mgm over the fasting level. In the cases of patients with horderline conditions and those with severe hepatic disease the rise was delayed the average rise was 12 mgm per cent above the fasting level and the curve vas often depressed s or 10

mgm per eent The authors believe that this test will sho deficiency of the carbohydrate metabolism in the liver in hepatic disease. Can age F DuBois M D.

Williams B and McLachlan D G S 71 4 Etiol gy of Cholecystitis La 1 93 34

Whereas formerly gall stones were supposed to be produced by the simple chemical p ecipitation of cholesterol as a result of hypercholesterolæmia in fection is no v regarded as an important factor in their formation The authors report experiments undertaken with the object of investigating the occurrence of streptococci in cholecystitis and the power of these micro-organisms to attack the gall bladder of animals hen injected intravenously Attention was directed toward cholecystims rather than cholelithiasis

Of four cases of acute cholecystitis including gangrene the bacillus coli were found in all and the bacillus welchu in t vo

Of ninety three cases of chronic cholecystitis in cluding empyema and mucocele streptococci were obtained from the gall bladder wall in fourteen (17 per cent) and colon bacilli in ninetcen (23 per cent) From the contents of the gall bladder streptococci were isolated in twenty one cases (26 per cent) and colon bacilli in sixteen (20 per cent)

Of ninc cases of cholesterosis with a typ cal straw berry appearance of the mucosa streptococci and the bacillus coli were isolated in one case

The low incidence of micro organisms is of interest as inflammatory changes are nearly always present The results of cultures are often surprising. The spec mens most likely to give a gro th are those with a thick and ordematous wall. Thick tarry bile is usuafly sterile while white bile is nearly always

A classification of the strains of streptococci ob tained from cultures was made. Half of the strains corresponded definitely to the enterococci which occur normally in the bowel and the other half re sembled the salivary and gamma st eptococci Mo t frequent among the other organisms were the colon hacilli and the next most frequent the bacill's lactis aerogenes and the bacillus welchi. The incidence of the bacillus i elchi is of interest because of the recent s ork on the use of bacillus welchu serum in acute abdominal conditions

Of thirty-one rabbits given intravenous inject ons of streptococci bacillus col bacillus paratyphosus and staphylococcus aureus according to the methods of Wilkie and Roseno only to developed gross evidence of lesions in the gall bladder. In one the lesions de eloped after the inject on of streptococci and in the other after the injection of the hacillus

The injection of streptococci into the will of the gall bladder resulted in slight thickening of the gall bladder vall but a similar change vas observed when sterile saline solution was injected

according to the authors e perience hile has no great inhibitory action on the growth of the ma jority of non hamolytic streptococci and the organisms isolated have very little power to localize electively in the gall bladder of experimental NORMAN G PARRY M D anımals

Morone G E pe imental Mycotic Cholecystiti (C1 t mitch pe me tl) fr/ //d 93

The author is impressed by the sca city of reports on my cotic infections of the b hary tract. He reports the results of a series of studies on infection of the gall bladder of the guinea pig by sporotrichum beur mani and mucor racemosus. Initi lly the e-mycetes caused an acute cholcoystit's of an infiltrating serous type or less frequently a mild suppurative type. In some instances the acute cholecystitis was followed by practically complete reco err but in others the inflammation soon became chro ic as ma ifested by cholecy states of the sclerotic atrophic hypertrophic hydrops cal suppurati e and granulomatous types and in one instance a peculiar cystic cholecystit's The chronic changes especially those of the suppura tive variety vere easily produced by fungi of low virufence

Stra vberry gall bladder was never seen at any t me in the course of the my cotic infection Not un commonly however there was a precocious hyper plasta of the mucous membrane w th the format on of p eudo adenomat us formations cha ges h ch sometimes extended into or through the gall bl dde

wall Spread of these changes to the large bile ducts was not infrequent A peculiar plastic pericholecys titis was common In one instance a typical gastric

ulcer appeared as a complication

The fungs were recoverable from the gall bladder at all stages of the process and as late as fourteen months after the infection. In tuto the bile did not exhibit the development of the mycetes. Rarely were secondary organisms found. When they were present they did not materially change the course of the cholecystitis. A Lours Rosr M D

Murphy G T The Effect of Acute Experimental Cholecystitis on the Emptying of the Gall Bladder Arch Surg 1930 vn 300

In experiments on a series of ten animals the author studied the effect on the emptying of the gall bladder of chemical cholecystits produced by the intravenous injection of eusol. Direct observations and reentgenograms of the gall bladder were made following the administration of a meal rich in egg jolk and cream. In only a single instance was there any evidence of emptying. The observations there fore seem to indicate that the acutely inflamed gall bladder does not empty after the usual test meal.

Walsh E L and Ivy A C The Etiology of Gall Stones Ann Int Med 1930 IV 134

In experiments carried out by the authors buman gall stones of the mixed cholesterin calcium pigment type were washed with sterile sall solution weighed and placed in the gall bladders of dogs given a stock det of corn meal bread and hone soup. The rate of disappearance of the stones was then followed by

Y ray examination

In eight dogs the average amount of stone dis solved in sixty five days was 50 per cent the maximum 87 per cent and the minimum 24 per cent If a definite chronic fibrous cholecy stitis followed the introduction of the stone the loss of weight was small (3 to 5 per cent) and light vellow hide of low specific gravity was found in the gall bladder Gall stones placed in the peritoneal cavity showed no material change in weight

The addition of olive oil and cocoanut oil to the duct failed to alter the rate of solution of the stones materially. When olive oil was used the average amount dissolved was 53 per cent the maximum 86 per cent and the minimum 21 per cent. When cocoanut oil was employed the average amount of soine dissolved was 60 per cent. The maximum 100 per cent and the minimum 35 per cent. The difference of 4 per cent of ver the control group is regarded.

by the authors as insignificant

Ligation of the cysuc duct and stricture of the common duct produce certain histological changes such as byperplasia and filmosis in the gall hladder mucosa and lymphoid tissue and a lowering of the specific gravity and a thinning of the bile. A diffuse fibrous cholecystitis prevents the solution of gall stones through failure of the affected gall bladder to concentrate the bile. In experiments carried out hy

the authors in which continuous reverse peristalsis with duodenal stasis and abnormal motility were obtained by the formation of a reverse duodenal loop marked hyperplasia of the gall bladder mucosa and lymphoid tissue resulted and after several months the bile was found to be thick and to contain sediment of the pigment and carbonate type.

Experiments in vitro showed that buman bile the two chief salts and diluted dogs hile possess no

solvent action on human gall stones

Soap especially the soap of lauric acid is a potent solvent of cholesterin and the mixed type of human gall stones

There is a marked difference between human and dog ble as far as the ability to saponify cholesterin is concerned. The authors believe this explains why gall stones of the cholesterin variety bave never heen produced in the dog and why the dogs gall bladder dissolves human gall stones. NORMAN G PARRY MD

Austoni A The Technique of Cholecy stectomy and in Particular the Ideal Cholecy stectomy (Sulla tecnea della colecistectoma ed in particolare della colecistectomia ideale) Cl: chiritg ro30 1 630

The surgery of the biliary tract is gradually he coming more important hecause of hetter diagnostic methods. In this field unlike most others post operative drainage is regarded by many as indispensable. However Haberer concluded that the truly ideal cholecy stectomy is subserous removal of the gail bladder in which the operative field is covered with peritoneum and the abdomen closed with out drainage.

The author reports a series of 215 cases of biliary tract surgery in 110 of which the so called ideal cholecystectomy was done. These included many complicated as well as simple cases The hest time for the operation is during an afehrile period Absence of saundice is most desirable but the sur geon should not wait longer than from fifteen to twenty days for the disappearance of this condition The gall bladder may he removed even in the presence of such complications as empyema peri cholecustitis adhesions and fistulæ duct should he doubly ligated the operative field covered as well as possible with peritoneum and the abdomen closed without drainage even when hæmo stasis or peritonization is not complete or there is slight soiling with pus Austoni s results show that in cases treated by ideal cholecystectomy the mortality is generally lower and the postoperative complications fewer than in those treated by cholecystectomy with drainage

The principal complications ol drainage are de layed bealing infection in the abdominal wall secondary infection with thrombosis in the operative field unfavorable effects on the heart and circula tion interference with abdominal function and limitation of the excursions of the diaphragm which

predispose to postoperative pneumonia

The indications for drainage include the impossibility of a olating and lighting the cystic duct in secure I gation of the cystic duct questionable viability of the common duct sepsis in the intrahepatic and extrahepatic bile prissages and mechan ical injuries due to faulty technique

1 Louis Rost M D

Gord n Taylo G and Whithy L E II A
Bact riological Study of Fifty Cases of Chole
cystectomy with Speci 1 Refer nee to Anae
robic Infections B 1 J S g 03 78

is a result of the ork done by Rosenow Wilkie and others attention has been drawn to the importance of streptococci in the production of gall bladder di ease and the theory has been advanced that cholect stitis is due to blood borne bacterial emboli from remote foci such as apical dental infections thich set up infection of the gall bladder tall The older vie that gall stones and cholecystitis arise from the penetration of intestinal bacteria into the lumen of the gall blad ler has therefore been superseded and there is perhaps a tendency to over emphasize the part played by streptococci and to regard intestinal bacteria as terminal rather than primary causal agents lfovever the frequent presence of intestinal bacteria in gall bladder in fections cannot be denied and it is indisputable that the anatomical position of the liver and gall bladder definitely favors infection of these organs from the intestinal tract. Moreover the activities of intestinal bacteria are alm st invariably accompanie l by acid production high is of great importance in the prec pitation of cholesterol and therefore in the formation of gall stones

To the usual list of intestinal brotteria found in gall bladder infections the authors add bacillus velchi an organism with remarkable acidogence postics hich was four ding of 50 c assecutive cases. They emit has zo the importance of routine anaerobic as ell as aerobic cultures.

Of the 5 case revie ed the bic lius coli as found in 15 the bacillus elchu in 9 the strept coccus facal's in 4 the staphylococcus albus in 8 the staphylococcus aureus in 7 the bacillus para tryphosus in 1 and the bacillus acid lactici m 1. In

8 the cultures ere ste ile A review of about ooo cultures of the fluid con tents of the gall bladder the gall bladder vall and gall stones shows that the intestinal bacter a are the most c mmon micro organisms to be found in gall bladde infections. Only a small percentage of the culture sho yed the bacillus velchu However this fact gives no indication of the incidence of and robic infection because in many cases anacrobes were not looked for The bacillus velchu is asso ciated mainly with the acute forms of cholecystitis but was present also in 13 per cent of gall stones re Accordingly there is some moved at autopsy evidence for the belief that the bacillus clchii may be a primary cause f gall bladder infection Con vestion of the call bladder caused by the pressure of a loaded colon ptosis or the internal pressure of the gall bladder contents is very favorable for the multiplication of bacillus i elchii

The streptococci isolated ere not of the hamolyte variety. The most probabler ute of infection of the gill bladder by these micro org n sms is by way of the portal system to the liver and thence by the periportal by mindates.

Gall stones may form as the result of a compa a tuely until animation of the gall bladder. They favor fresh infection the development of more acute choices that and persistence of the orginal indication. When the inflammatory process is of long duration bacteriological examination may show the gall bladder and its contents to be sterile. Therefore the stones become the tomb of the cas abbacteria.

Sanders R I The End Re ults of 500 Cases f Clolecy teet my i S g 93 376

In the 500 cases of cholecystectomy reviewed the average age of the pat ents as forty the eyears. The youngest patient was four years and the oldest eighty three years of age. The mortal ty was 4 per cent.

In 78 2 per cent of the cases the chief complaints were op gastice pain fullness g s and bloating Gall stone collo occurred in 92 2 per cent but stone ere found in only 40 per cent of the g ll bladders removed Jaund eer as present in 3 per cent of the cases and nausea and somitting occu red in 52 per cent

Cholecy stectomy alone was done in 35 6 per cent In 58 per cent cholecystectomy and choledochot omy were done in 49 per cent cholesystectomy and appendectomy and in 9 6 per cent choleey stectomy and pyloroplasty The importance of the complete erad cata n of all intra abdominal disease i em phasi ed. The author today closes the abdome ithout d ainage in more than 7 per cent of cases but in 65 6 per cent of this series of cases drainage was employed. In the cases of closure without dramage it never became necessary to re open the abdomen and as a rule the c nyalescence smoother and shorter than in the other average stay in the hospital as sixteen and five tenths days in cases with drainage and fourteen and si tenths days in those vithout drainage Infection occurred in 6 per cent of cases—ith tight closure and 14 per cent of those \ 1th drainage

In the cases with Irainage there was a mortality
of 6 per cent The chief causes of death vere
pneumonia myocard al and hepatic ins fice cy
and shock

The author believe that when the cystic duct and artery are tied tog ther there is less danger of feakage

All of the gall bladders ver studied by a pathol ogsit Only 5 8 per cent presented the mild 1) per of cholecystits Strawberry gall bladder as fo d in 10 per cent of the case and rehef was m t marked after removal of this type

The end results in 35 cases were as follows

	Per cen
Complete relief of symptoms	94 o
I artial relief of symptoms	11 6
No beneft or symptoms made worse	4 0
Di estion much improved	87 o
Only partial relief	9 3
Di estion not benefited or made worse	3 7
No colic	87 2
Recurrent colic	12 5
No sub equent jaund ce	95 4
One or more attacks of jaundice	4.5
Condition of wound sati factory	91 4
Bul e or hernia	8 5

In 2 of the cases in which postoperative jaundice occurred it was accounted for by the discovery of stones in the common duct but in the others the cause was less certain

Most of the unsatisfactory end results occurred in cases in which there was cholecystographic evidence warranting operation but not a good clinical history. In most of the cases in which no relief was obtuined there was a mild cholecystits.

NORMAN G PARRY M D

Chiray M Jeandel A and Salmon A Clinical Exploration of the Pancreas and the Intra venous Injection of Purified Secretin (Lexploration clinique du pancreas et a la pection intra veneuse de secrétine punífiée) Pr see méd Par 1930 vivil 977

The authors review the laboratory methods used for the study of the external pancreatic secretion methods which measure the activity of the fundamental diastases of this secretion trypsin amylase and lipase. In the older indirect methods analysis of the pancreatic ferments is made sometimes in the stool sometimes in the blood and sometimes in the unite.

In studying the pancreatic secretion provoked by foods the authors chose milk but tests made with milk were fatiguing to the patient and sometimes difficult. The secretin t st is more simple rapid and exact The intravenous injection of a dose of 2 ampoules of secretin diluted in 6 c cm of twice dis tilled water gives quick results. With the sound in place and a sample of Bile A collected the complete emptying of the gall bladder is brought about by two intraduodenal instillations of a hot 33 per cent solution of magnesium sulphate The instillations are separated by an interval of fifteen or twenty minutes After the Bile B has flowed out a few centimeters of the Bile C are recovered for comparison

In normal case the pancreatic response occurs almost immediately usually before the end of the first minute Samples of the pancreatic secretion should be taken every five minutes and tubes prepared immediately for examination of the ferments. The authors analyze the lipase by the Bondi method with the modification of Chiray and Milochevitch and the trypsin by the method of Gaultier Roche and Buratte

I be intravenous injection of secretin is followed almost immediately by a marked increase in the out put of secretion. When the latter stops or almost stops it nearly always begins to flow abundantly agrin and nine or ten samples can be obtained at intervals of five minutes. The collection in from fifteen to twenty five minutes amounts to about 150 c cm. In the first tubes from 10 to 30 c cm is collected in five minutes. The output then be comes progressively less and may even stop suddenly

In pathological cases the curve may be very similar but the figures are lower. Sometimes the output which is somewhat accelerated at first grad ually diminishes to insignificant amounts which cannot be analyzed. There is also a deficiency in the enzyme content.

The secretin test was used by the authors on normal persons and in twenty nine cases of chole cistibs two cases of cyst of the pancreas or non cancerous hypertrophic pancreatitis two cases of diabetes and two cases of digestive atony. When the gall bladder is atome the cholecystokinetics used at the beginning of the test do not completely empty it and emptying is accomplished by the intravenous injection of scretin. This hormone appears to have a great cholecystokinetic power which may interfere with the collection of pincreatic juice

PACE

Mouzon J Partial Pancreatectoms in the Treat ment of Conditions of Hyperinsulinism (La pancreatectomic partielle dans le traitement des tats d'hyper n'ulinisme) Pre se m d Par 1930 vxx iii 1 57

Mild forms of spontaneous hypernaulinism have been noted in certain diabetics with instability of the blood sugar rendering insulin treatment impossible and in non diabetic persons suffering from obesity or hypertension. These are manifested by attacks of asthenia and hunger associated with hypoglyc man such as may follow a large dose of insulin and may be entirely relieved by the administration of carbohydrates. In more severe forms convulsive confusional and apoplectiform phenomena may develop suddenly and the condition may prove fatal unless it is promptly relieved. The treatment is simple consisting merely in the administration of

In some instances severe hyperinsulnism is due to a hyperplastic lesion or tumor of the pancreas As an example the author reviews a case studied by Wilder Allan Power and Robertson in 1937. The pitient was a physician aged forty years who in 1930 had been subjected to gastro enterostomy and appendectomy on account of pain in the region of the stomach. This treatment was followed by relief but in February 1922 and January 195 the epigastric pain recurred. Cluose was then found in the urine. A few months after the recurrence of the pain in 1925, the patient began to have sudden attacks of fainting with paresthetic numbness of

34 the tongue and hips abundant sweating and trem

bling These came on with increasing frequency be fore meal and after effort. The patient found that he could prevent them if when he noted the first symptoms he had time to eat something or take a sweet drink. It became necessary for him to in crease his meals Soon he noted epigastric pain and abdominal heaviness after meals life gained weight became pale and developed furunculosis. The l er was large firm and painless Tests showed that from 20 to 25 gm of glucose vere required per hour to maintain the blood sugar at a satisfactory level It e ploratory operation the pancreas was found to be enlarged and hard. The body and tail nere irregular but the head vas almost normal. The pancreatic tumor had metastasized to the right lobe of the liver. On account of the presence of chole

cystiti a cholecystectomy was done After the operation the amount of sugar necessary daily increased until it reached i kgm. The patient died suddenly eighteen months after the first attack of hyperinsulinism. The findings at autop y sug gested that the insulir tumor of the pancreas and especially its hepatic metastases which ere much richer in young and active cells continuously put into the circulation an insulin secretion normal or modife! shich yas not controlled by the nervous s) stem

The author believe that when the diagnosis is made before the occurrence of metastases in cases

of the type e eresis of the pancreatic lesion is the I gical treatment. To o cases reported in the litera ture confirm this opinion In fi e cases of hyperinsulinism reported in the

I terature pancreatectomy was performed without incident. In four only partial temporary or doubt ful benefit resulted but in one which is discussed in detail a complete cure vas obtained fin the mild f rms the number of meals and their carbohydrate content shoul I be increased

Perrottl G Attempts at the Su gleat Cure of E perim ntal P ncreatic Diabet's by Sup r nalect my (T t t i d cu a ch gic d l d rem tl m dia tl 1 tm) 1

The author reports experiments carried out on dogs with regard to the relationship bety een the pancreas the sup arenal glands and hypergly cæmia Total pancreatect my alone resulted in severe by perglycamia whereas pancreatectomy performed simultaneously with or after unilateral suprarenal ectomy was follo ed by only a very slight hyper glycæmia Moreover the very marked hyperglycæ mia which followed total pancreatectomy was greatly reduced by unilateral suprarenalectomy This effect of undate al suprarenalectomy was temporary be cause of the compensatory hypertrophy of the re maining suprarenal gland

I errotti concludes that in dogs there is a hormonal antagonism bety een the cortex of the suprarenal A Loui Ros M D glands and the pancreas

Stetten D W Sub cute Pancreatitis or So Called Acute CEdema of the Pancreas 1 S g 93

Stetten concludes that there is sufficient evidence to arrant the belief that a subacute or mild pan creatitis or so called acute ordema of the pancreas occurs as a pathological and clinical entity independent of gall bladder diseases though probably due to some primary disturbance in the biliary sys tem It seems probable that this condition is a for runner of acute hamorrhagic or necrotic pancreat ti and possibly also of the chronic varieties of pan creatitis He believes that the chinical picture f this form of pancreatitis is sufficiently typical f r a diagnosis to be made in most cases Farly operative interference is indicated usually cholecystectomy with spl tting of the peritoneum overlying the pan creas and dramage of the surface of the gland the approach being made preferably through the gas trohepatic omentum

The discussion of this report indicates that a d agnosis of subacute pancreatitis cannot be made Some of the surgeons questioned the ad visability of doing a cholecystectomy in cases in which the gall bladder is perfectly normal when the possibility of an acute pancreatiti a is ng from causes outside the b liary system 1 adm tted ELIZ B TH CR. NSTO

Elfason E L and Nortl J P Acut Pancreat tis S & G) c & Ob: 193 1

Eliason and North state that acute pancreatitis is not so rare as as generally believed. They report their experiences with thirteen cases hich they treated during a period of five years

The cause of the cond tion is still doubtful al though many ha e worked on the problem The authors agree with Jones that there are probably two types-a mild form associated with chole hthiasis in hich infection enters the pancreas by s ay of the lymphatics and a se ere form with mas si e hemorrhage which is due to ductal entrance of the infection. In both types there is injury to the pancreatic tissue causing conversion of tryp nogen trypsin which digests the tissue

The gross characters tie features of acute pan creatitis are a bro nish peritoneal e udate patche of fat necrosi and greeni h cedema of the omentum and retroper toneal to suc

The diagnosis is so difficult that of a series of 23 cases reported in the l terature a correct pre opera as made in only 31 per cent The tive diagnosi characteristic symptoms are

Lpigastric pain usually radiating to the back at the same level or to both shoulders. It i ery severe but undergoes remissions vi ch allow the patient to resume his work thus differing f om the pain of acute pe foration and bil ary col c Du i g the attacks of pain the patient assumes a po ti of moderate relaxation : the right lateral decubitus DOSITION

2 Persi tent omiting

- 3 Shock This occurs usually in the fulminating cases
- 4 Slate gray cyanosis of the upper part of the body This has been seen in 40 per cent of the cases and is pathognomonic

5 Constant tenderness 6 A high leucocytosis

Rigidity is seldom marked and a mass is found only in late cases with a cyst or abscess Contrary to general opinion glycosuria is seldom present

In the treatment given by the authors all necrotic pockets are opened with the blunt forceps or cautery and drainage is established with soft cigarette drains. The advisability of coincident biliny surgery depends upon the pathological changes found

and the patient's general condition

Danish surgeons prefer expectant treatment operating only in cases of peritonitis or abscess formation. In the cases in which the authors oper atted immediately the mortality was about 75 Per cent whereas in all of those in which they deferred operation recovery resulted. In addition to the immediate hazard of surgery there is danger of post operative complications. The latter include (1) secondary hamorrhage due to trypic digestion of the vessel walls (2) Whipple's syndrome of pair creatic asthema (3) persistent sinus and (4) ven tral herma. Recurrences and residual abscesses are not uncommon. Most of these complications are due to the operation itself. The authors therefore conclude that as in acute cholecystits and acute salpingitis operation should be deferred until after the acute phase if possible.

MAURICE L DALE M D

Petridis P Egyptian Splenomegaly (I a spléno mégalie égyptienne) Ann d'a iai path 1930 vii 637

Petridis reports with considerable detail two cases of Egyptian splenomegaly in natives of Egypt and discusses the disease from various standpoints

This condition which resembles Bant is disease or splenic aniema is frequent in Egypt. It is found in 10 per cent of autopsies on natives performed at the government hospital at Cairo and accounts for 7 per cent of hospital admissions. It is most frequent between the ages of thirty and thirty, five years but of the author seight personal cases three were those of children. The disease is apparently contracted in childhood or youth and becomes stationary in adult life. It is found almost exclusively in the poor rural classes and almost never in the well to do classes or European's resident in Egypt.

It has three stages In the first stage the cardinal sign is an increase in the size of the spheen. This increase is slow insidious and painless. Irregular fever occurs in more than 29 per cent of the cases and precedes the splene enlargement. In the second stage the splenomegaly becomes accentuated and hypertrophic cirrhosis of the liver and pain are added to the syndrome. In the third stage, the liver attrophies and ascrites appears.

good results in the second stage but is strictly contraindicated in the third stage. It is with the appearance of ascites that the condition becomes grave. According to Day the ascites may be caused by any one of the following four factors

I Advanced hepatic cirrhosis with destruction and degeneration of the parenchyma of the liver Cases with this condition constitute the most im

portant group

2 Subacute hepatic cirrhosis with associated ne phritis due to intestinal infection. Unless interus appears this condition unlike the first is curable by appropriate treatment.

3 An exacerbation of the disease announced by an attack of fever or diarrhoa In this condition also the ascites may be cured

. Unset fortune in older settem

4 Heart failure in older patients Rickets and parasitic diseases are frequently found

with Egyptian splenomegaly and bronchitis and pneumonia are usual after oper tion

The pathological anatomy of the disease is dis cussed at length and illustrated by a colored plate showing fibrous foci with ferruginous incrustation in the liver Day believes that Egyptian splenomegaly is a manifestation of schistosoma mansoni infection He holds that the hypertrophy of the spleen is sec ondary to the cirrhosis of the liver Petridis found the eggs of the schistosoma in the liver in one of his cases and agrees with Day that this parasite is the cause of the disease He holds that the fungi re ported as being present in the spleen represent only a secondary infection The condition shows marked similarities to Japanese splenomegaly the pathoge nic agent of which is recognized as being the schisto soma japonica FLORENCE A CARPENTER

Warner E C Advanced Banti 8 Disease Treated Successfully by Ligature of the Splenic Vein Proc Koy Soc Med Lond 1930 xxii 1405

In the case reported ligation of the splenic vein was done because splenectomy would have been dangerous on account of the advanced stage of the disease. The ligation was followed by marked im provement in the general health. The blood count improved and the liver tolerance and function be came normal. Since the operation the liver and spleen have remained the same size as before the veins on the abdominal wall are much smaller and there has been no re accumulation of ascitic fluid.

Fhs case shows that when splenectom, is difficult (e g on account of adhesions) or might be fatal on account of a poor general condition ligation of the splenic vein has almost as good an effect and is rapidly performed Howard A McKingir M D

Wright J H and Stevenson E M K A Case of Primary Sarcoma of the Spleen Glasgow M J 93 c W I

Primary malignant disease of the spleen is very rare. The case reported by the authors was that of a woman fifty eight years of age who complained of constant pain in the left bypochondrium which radiated up and to vithin a few inches of the arm pit I hysical evamination sho el vasting anla large mass extend ng from the subcostal region to the umbleus The mass vas hard nd superficial anl had a very irregular surface

Autopsy revealed a gravi h hite tumor contain ing necrotic masses and cavities filled ath a turbid yello fluid The neoplasm had extended to the adjacent structures but no metastases a ere found Ili tologically the tumor seeme I to resemble the endothelial sarcoma described by Ex inc

M HERBERT B AE MD

## MISCELLANEOUS

Morison J M W Di phragmatic He nia P A 1 S M d Lo 1 030

The author first re news the history of diaphrag matic hern a an labstracts cases recorde lin the literature He then d scus es cases coming under his o n observation

Diaph agmatic hernix may be congenital or ac quire! They are described as true or false according to whether or not they have a sac. They may r sult fr m a congenital d feet at any time of life. It is son suggests the following classification (1) gross st uctural defects (2) limited structural defect (2) eventr tions (so called) (4) unilateral ph enic paralysi (5) thoracic stomach (6) eventra tion though no mal opening a the diaphragm (2) lacerations of the diaphragm by younds accidents or di case and (8) the sudden g i g way of a co genitally weak part

The d aphragm is pierced by numerous structure but the sympathet c trunk and the splanchin c nerves pass posterior to it The ope ings of importance in the development of diaphragmatic hernia are the foramen quadratum in the right lobe of the centr l tendon for the passage of the infer or vena caand the resophageal opening in the muscular s b stance of the diaphragm posterior to the ce t al

hich is surrounded by a sphincter like ar tendon rangement of the crural f bers and transmits the t o gr nerves as well as the esophagus. Among the mo t common diaphragmatic hernix a e th para a sophageal hernix which e c first described by Mo gagm. These may be congenital or acq i ed Those of the congenital type may of course he class

f ed as limited structural defects. They arise fr m faulty formation of the diaphragm in the esophageal region The draph agm is specially suitable for roentgen ological investigation because of the cont ast be ti cen its heavy shadow a d the lighter shadow of the lung In the majority of cases of d aphragmatic

hernin roentgen examinatio makes the diagno i certain In ea ly diag is a of great impo tance there is lways danger that a d aphragmatic her

n may bee me strangulated

Mcn II K M D

# GYNECOLOGY

#### UTERUS

Steamund H The Dependence of the Uterine Musculature upon the Functional Phases of the Ovary Experimental Observations on Anımals Î The Reaction of the Uterlne Musculature During the Menstrual Cycle II The Reaction of the Uterine Musculiture During Pregnancy and the Puerperium in the Rat (Ueber die Abhaen igkeit der Uteru muskula tur von den l'unktion phasen de O a iums Ter experimentelle Unte suchun en I Die Peaktion sla e der Uterusmuskulatur waehrend des Zyklus Die Reakt onslage der Uterusmu kulatur vaehrend der Gra ditaet und im Puerper um bei der Ratte) 1rch f Gv k 1930 crl 5 3 583

The author attempted to determine whether and to what extent the pseudocorpora lutea which in the infantile animal can be produced by implanta tion of anterior lobe of the pituitary or the injection of prolan possess a biological function His studies were based on the investigations of knaus who demonstrated that in the rabbit the hormone of the corpus luteum inhibits the action of the internal secretion of the posterior lobe of the pituitary on the musculature of the uterus However it was found that the uteri of rats on which the experiments were to be conducted react entirely differently from the uters of rabbits. While the rabbit uterus shows throughout the period of functioning of the corpora lutea a constant loss of tonus and contractility which cannot be influenced even by the artifi ial adminis tration of pituitrin these signs are entirely absent in the rat. In the rat an immediate and marked increase in tonus can be obtained with pituitrin in all stages of the cestral cycle. Hence in the men structing rat in contrast to the rabbit no antago hism between the posterior lobe of the pituitary and the corpus luteum in their effect on the uterine musculature is demonstrable. At the time of the functioning of the corpora lutea (metæstrus) in the rat a sluggish but regular course of waves is ob served when no corpora lutea are functioning at the time of cestrus the muscle action is lively and irregular It shows an increased power of motion with a diminished tonus

The second part of the investigation supplemented the results of the first part as it showed that even at very different periods of gestation the rat uterus reacts to the internal secretion of the posterior lobe of the pituitary invariably with increased tonus which also is in contrast to the findings of Knaus in studies on ribbits. For these investigations the non pregnant horn of unilaterally castrated rats in different stages of pregnancy were used The in crease in weight of the sterile horn was very slight From this it may be concluded that in addition to

the general hormonal growth stimulus a special local stimulus proceeding from the ovum is effective The difference in the supply of both horns is the more marked the greater the number of ova and hence the greater the number of sites of hormone production there are in the gravid horn. Curves of the tonus contractility and movement of the uterine muscle during the different phases of gestation show

little that is characteristic

On the basis of his experiments the author as sumes that the corpus luteum does not evert the same influence on the uterus in the rat as in the rabbit Possibly there is a difference between the internal secretion of the corpora lutea of rabbits and rats However the corpora lutea are not dispensable during pregnancy even in the rat for when they are removed the fetus always dies. The difference in sensitiveness to pituitrin found by the author in the uterus of the rat and rabbit constitutes new evidence for the varying often opposite reaction of the same organ of different mammals to the hormones of similar endocrine glands E PHILIPP (4)

Syphilis of the Cervix of the Uterus (S file de cuello de ute o) Bol Soc de obst y g ico de Buc 11res 030 1V 24

The author reviews the cases of syphilis of the cervix which have been seen in a period of ten years at the Rivadavia Hospital in Buenos Aires He be heves that syphilitic lesions of the cervix would be discovered more frequently if a thorough search

were made for them more often

The lesions are divided into the three groups primary secondary and tertiary. The primary lesions are subdivided into the papular ulcerative and hypertrophic forms of chancre. The papular form is the most common and the ulcerative type the least common The initial lesion is indolent and may cause only slight or no symptoms. In some cases it is associated with leucorrhora menstrual disorders or occasional slight pain. It must be dif ferentiated from cervical erosion herpes tubercu losis carcinoma and ulcer The clinical diagnosis is based on the appearance of the le ion the demon stration of the spirochate the history and any symptoms that are presented Because of the anat omy adenopathy can be demonstrated only with great difficulty Histological study of a section shows characteristic pathological changes Wassermann reaction is positive about as frequently as in cases of primary syphilitic lesions elsewhere

The secondary lesions are divided into the cross e papular and ulcerative forms. The ulcerative are the least common of the three

The tertiary lesions include the various gum

matous forms

In cases of secondary and tertiary lesions the symptoms and pathological changes follow those of syphilitic lesions elsewhere on the genitalia

38

DAVID \ CLEVELAND M D

Watkins R E Hydriddform Mole and Ch i n epithelioma A R port of Thirteen Cases li t J S g 93 04

Watkins states that hydatidiform mole should he suspected when bleed ng occurs during the first in mester of pregnancy in association with ahnormal enlargement of the uterus for the given stage of the pregnancy. The passage of a cyst makes the diag nosis certain.

A voman v ho has pass d a hydatuhiorm mole should be kept under close observation for signs of developing chorionepithel oma eg hæmorrhage and enlargement of the uterus Scrapings obtained b curettage cannot be rehed upon The clinical find

ings are more important. Tighty four per cent of women who expel a hydatelifort mole recover spon at anously. Radical surgery such as hysteretomy is not justified unless symptoms of mal gnane, develop. Choronepatheloma should be treated by complete removal of the ute us tubes and ovaries unless metastases have occurred.

Hydatidiform m le occurs nee in 3 98 pregnan eies and chorionepithelioma once in 13 800 pregnanees The author reports 13 cases of mole and

case of chorionepithelioma following mole

R LAND S CR M D

Bonanno A M Tie Bacteri I Flora in Carcinoma of the Uteru Afte Radium Th rapy (L. fl r batt rica an om d ll t ro sott p t d umt rap ) R d l d o 3 8 o

From studes made in tents cases of carci oma of the uterus the author has come to the conclus on that the bacterial flora in this condition is ery variable Of the cases reviewed staphylococci were found in 18 bacteria of the colon type in § saccha myces

In 12 m crocccci in 10 and streptococc in 7 In many of the cases the suppuration as reduced and the bacterial flora changed after radium treat

ment In some cases there as an increase in the hæmolytic and proteolytic powers of the o ganisms

having these properties

Tumors of the cervi with a rich bacterial flora and profuse suppuration are not affected by radium therapy to the same degree as those with a poor flora In the t entry cases reviewed even those ith a

bacterial flora including streptococci radium therapy never caused local or general septic complications Mar in J Di Cola M D

Begouin Radical Abdominal Hysterectomy for Cancer of the Cervix Ut r1 Results After fr m Ten to Twenty F1 e Years (Ca e du 1 thy t6 tm abdom le el g Re ltats de  $a \le 1$  B d b = 0.3 No.

In 75 Wertheim operations performed by the author in the period from 1904 to 1918 the operative

mortality was 8 per cent. Of the 40 patients he has been able to trace 20 are dead and 20 are rured. Of the 20 who are cured 5 vere operated upon mo e than thenty years ago 5 more than filten years ago 5 more than they eyears ago and 5 more than they eyears ago and 5 more than they eyears ago and 5 more than ten years ago. When for comparison of the nucleance of cure with that follow ing radium treat ment which has practically no immediate more talty the operative deaths are 1 cluded with the recurrences in the calculations the incidence of cure was 43,48 per cent

The slight difference between the number of sur vival after five years and after ten years justifies the acceptance of the five year period as the cite rion of eure. The author has been able to find records of only o cases amo g 1 956 in which there vas a recurrence after five yea s. After ten years

recurrence is a tremely unusual There are surgeons and pathologists ho believe that it is no er poss ble to speak of a cure of cancer Impressed by a few rare recurrences after very long periods they are un ill ng to believe that anything beyond a clinical cure is brainable. The i an error because cancer has been definitely proved t be a local di ease which can be erad cated in its early stages While occasi nally emboli escape to de elop years later emboli may escape al o in hysterectomy for f broma In the first instance the effects are seen only afte a peri d of years whereas in the second they become evident vithin t enty days. Howe er this accident does not preclude the oceu rence of LAE I D GROT M D true cures

# ADNEXAL AND PERIUTERINE CONDITIONS

Watkin R E and Wil n W M P im ry C rei noma of tle Fallopian Tubes S g Gy & Ob t 93 l 5

The authors state that primary carcinoma f the fallopian tube is a rare disease. Only about 200 authentic cases have been recorded; the lie atue. The age incidence of the condition is the s me as that of cancer in centeral.

The cause 1 u kn wn but it is the opi on of m ny that the chronic salping tis c mmonly a so

ciated ith the disease is a pred posing fact r
There is n character the physical sign or symptoms. The most constant sign rayaginal discharge

hich at times is tinged 1th blood

The dagnoss has been made only once before operation (by Falk). In a large percentage of cases the dease as neither recognized nor suspected at operation. The case reported by the authors demonstrates the impo tance of immed ate section and i

spection of extirpated pel ic tumors

The treatment indicated is radical c tirpation of

the uterus and adne a

The progno is s poor Γ v patient have survived

The progno is spoor  $\Gamma$  v patient have survived the fifth postoperatice year

Mac oscopically the disease resemble a chr me inflammatory c ndition of one or both tube which is often undi tinguishable from pyosalping or hydro salpinx When the tube is opened a friable papil lomatous growth is usually found

Microscopically the lesion is a papillary or papillary alveolar type of tumor. The primary disturb ance appears to be a malignant hyperplastic change in the cylindrical epithelium of the tube. The subjacent ovary is frequently involved and retroperitoneally mph gland metastases are common.

CARL H DAVIS M D

Meyer R Tubular (Testicular) and Solid Forms of Andreioblastoma of the Ovary and Their Relationship to Masculation (Tubulaere testikulaere und solide Formen de Andreioblastoma ovaru und ihre Beziehung zur Vermaennlichung) Be tr path Anat u. allg Pail. 193 Ivviv. 485

After brief reference to the few tumors of the type under discussion which have been reported in the literature to date the author discusses his own material—one case of typical and six cases of atypical tubular (testicular) adenoma of the ovary

Meyer's case of typical tubular adenoma was that of a womin forty four years of age who had borne one child had had two abortions and had been sub jected to hysterectomy for carcinoma of the uterine cervix. Six months after the operation the patient was referred for roentgen irradiation and three and a half months later she died from metastases in the brain. Autopsy disclosed a tumor of the ovary as large as a child shed. On microscopic examination the neoplasm was found to show in some areas the structure of a tubular adenoma but to be mainly a solid small celled carcinoma. In this case there was no masculation.

The first of the author's cases of atypical tubular (testicular) adenoma of the ovary was that of a girl sixteen years of age who had menstruated regularly for two years and then developed an ovarian tumor causing menstrual irregularity. She had a male gait and a deep male voice. Her breasts were poorly developed The genital hair and external genitals were of the female type. After operation for the removal of the ovarian tumor menstruation again be came regular the girl appeared to be in robust health and the pitch of ber voice became consider ably higher On microscopic examination the tumor was diagnosed by one pathologist as a so called alveolar sarcoma However the author noted twisted columns and atypical tubules and concluded that it resembled the typical tubular adenoma most closely although it showed a transition to the atypical diffuse carcinoid and carcinoma

Case 2 was that of a woman twenty three years of age who a year previously had had irregular hemorrhages and for nine months had had amen orthera. Her voice was strikingly rough but her general appearance was delicate. She was small and pale. Her breasts were underdeveloped. At operation an immovable cystic tumor the size of an ostrich egg was removed from the right overy. Death occurred nine months later from recurrent tumors in the abdomen. The patient retained her rough voice.

and was sullen and unsociable up to the time of her death. Microscopic examination of the tumor showed in addition to areas suggesting alveolar sar comain the epithehal cell prohferation tortious and didated tubules and irregular strands of cells

Case 3 was that of a woman sixty six years of age who was operated upon for a tumor of the left ovary, the size of a small fist. For over a year she had had a deep hoarse voice. After the operation her voice became and remained clear. On microscopic examination, the tumor was found to be of an atypical type with tubular portions in only certain areas but showing at the periphery polygonal epithelioid cells with drops of fat which closely resembled interstitial cells.

Case 4 was that of a woman twenty four years of age who had had amenorrhoea for sixteen months and enlargement of the thyroid for three years For one year her voice had had a masculine tone Her upper lip chin and thighs were very hairy During the last six months the pubic hair had grown up to the umbilious A tumor the size of a man s head was removed from the right ovary Four weeks after the operation menstruation recurred and since then has been regular The signs of masculation gradually disappeared but the voice has remained deep. On microscopic examination the tumor was found to be an atypical tubular adenoma which was partly car cinomatoid and partly sarcomatoid and contained mucous epithelial cysts Between the epithelial por tions there were groups of lipoid containing epithe hold cells which may be described as interstitial cells

Case 5 was that of a voman who had been sub jected to thyroidectomy two years previously and had suffered from amenorrhoa ever since that op eration About three months previous to her exami nation by the author she had genital bleeding which lasted for about eight days. Four weeks later the hæmorrhage recurred Since then there had been a rapid increase in the size of the abdomen Soon after the thy roidectomy there was a marked increase in the hair on the body and face. The patient was obliged to shave every second or third day. Her voice became rough and deeper A tumor measuring 30 by 16 by 12 cm and weighing 2 450 gm was re moved from the right ovary After the operation the birsuties gradually disappeared and the voice be came clearer Four weeks after the operation men struction recurred and since then has been regular Microscopic examination showed the tumor to be an atypical slightly tubular but more strand shaped neoplasm which was carcinomatous and partly sar comatous and contained mucous epitbelial cysts

Case 6 was that of a woman thirty five years of age who was operated upon in 1924 for a tumor of the right ovary. Up to the time of her marriage, the patient had menstruated regularly. Thereafter men struation was irregular but she became pregnant four times. After her fourth labor she did not men struate for six years. At the end of that time irregular hæmorrhages occurred and for three months.

previous to the time that she vas examined by the author she had continuous bleeding I or two years her voice had been very deep and her arms and legs very hairy. After the removal of the o arian tumor the excess hair di appeared very rapilly but the vo ce remained unchanged. On microsc p c e ami nation the neoplasm was found to show the structure of an atypical tubular tumor of the ovary but was chiefly a carcinomatous solid tumor. In some areas it resembled the cylin from tou granulosa cell tumor

The author calls attention to the f ct that among the numerous tumors of the ovary a le groups re lated to the parenchyma of the gonads ha e been differentiated These are (1) the granulation cell tumors (2) the large cell solid carcinomata occurring in the young girls and pseudohermaphrodites and (3) the tubular adenomata ith their transiti as to tumors of solid form (ca c of C cis ler Halban an I Sellheim) The morphology of each group is probably determined by the les er or greater maturit of the tumor germ However the in liferent cellular material of the gona I anlage is a very special one The earlie t stage of the indiffe ence invol es a spe cial type of hermat broditi m sexual ambi alence It is apparent that in incompleted part of the ger minal epithelium in the o ry may still give rive to tubular formations in 1 ter lif Moreover tubul r proliferations i the testi do not necessarily origi nate in completed testicular tubule \ \ tubular a le noma at the site of a female go I loes not neces sarily in his tether esence of a h rmaphr lite gland Hove er the uthor ecognize such a possibility On the basis of these ob er ations Mever has gi n these tumo s also a special n me lie designate them as andre blastomata becaue he ishes to call attention to the fact that they resemble n t the testicles but only the cells that sho a tendency to ard masculinity. The andre blastoma of the ovary may rie fr m cells which re or g nally hermaphrodit c nd later tended to and mascul nits Masculation is due to the flect I an internal secre tion of tumor cells - ith specifically male attributes Tumor with female ttribute e pecially granulosa cell tum rs cause feminizati n ma ilested by early maturity of childr n an I path I gierl I te maturity in senile omen On the othe finnd the large cell solid ca cinomata of both eve produce no hetero H4 0 V se ual character stics

#### B bes nd P ntz Lazare cu Ti e O igin f kru of the Ory (Et d Kukbgdl kenb rg Tum g ed lat m 1 61 93 465

As a re ult of careful studies f a case of Kru kenberg tumor of the vary and a re tew ol the lite ature pert ini g to this type of neonlasm the authors conclud that there is no reli ble ev dence to substantiate the 103 that Krukenberg tumors rep resent metastases from a primary carcinoma aris ng in the d gesti e tract They reject mo t of the cases reported in the lite ature as inconclusive because

the autopsy reports for the mo t part dd not clude detailed macroscopic and microscopic de scriptions of all of the abdominal v cera and their peritoneal coverings. They emphasize the importance of a careful study of the peritoneum because the case they report sho ed hat they c sider evidence of a primary adenocarcinoma a is ng from the perit ne m Thi case pre ented al o extensi involvement of all of the abdominal and pel ic organs as vell as the distant lymphatics. The au thors ere able to d tinguish two types of car cinomatous change

Differentiated mucinous cells fo mi g gl dular structures (adenocarcinoma) located be eath the peritoneal surfaces of the stomach ovary spleen and liver

2 Undiffere tiated polymorphous mucinous cells (signet ring cell ) which spread diffusely through the deeper layers of the intestine at much vary and lymph nodes

The authors consider these two di tinct types of involvement as lifferent manife tations of the same conditi n and a c of the pinion that the diffu c signet ring type repre ents merely an adva ced stage of a lenocares oma which has become nogres 1 ely mo e ndifferentiated as 1t has g ined in

age and malignancy Studies of the ong nal case reported by Kruke be g and of the case reported by Cohn and Sche k failed to re e I primary neopl sms ari ing from the mucosa of the gastro a testinal tract. The autho s believe therefore that these cases ubstantiate the r vie of the peritoneal origin of Krukenberg tumor

# H ROLD C M C M D

MISCELLANEOUS Cannon D J Recent Advanc In th Pi y iol gy of Men tru tion B 1 M J 0.3

In the lo er animals the earet od tinct cycles th sexual o estr us c cle and the reproductiv cycl or the pha e | pseudopregnancy belle e that in man and the minkey the sexual cycle has desappeared altogether but Cannon ag es 4th Marshall that in the human being pr i trus de velopm at a d the phase f p eudopregnanc con cide In the human bject the ant gon smb t e n the or t u p ducing hormone and the special hor m ne ol the c pu lut um 1 reduced The former takes on probabl a hype æm ing a d sec etory nd the latter produces the menst ual lunct on decidua

The o.t spr ducig h rm ne as ell a the f likele ripe ing depends upon a hormone formed by th anterior lobe f the pitu tary gl nd E ans and Sump on ha e demon t ated t o d ti et h imones in the anteri r pitu tav on hing an a tru and maturity prod cing effect and the other having a lute mizi g and ce tru inh bit ng effect has de cribed th se two h rmone a d has called them the alpha and beta bormo e He has sho n th t the admin tration of both alpha and beta hormones inhibits oxulation. This indicates that the beta hormone is active only during preg

nancy or pseudopregnancy

The author epitomizes the human menstrual eycle in terms of modern endocrinology. The alpha hor mone of the pituitary gland stimulates the ripening of the follicles and leads to ovulation while it activates the cestrus producing hormone responsible for the gradual development of the endometrium which is characteristic of the interval phase. The cestrus producing hormone combined with the luterine hor mone of the corpus luterium which has been activated by the beta hormone of the pituitary gland produces the full series of changes which constitute the premenstrual phase of the human menstrual evide. The degeneration of the corpus luterum is followed by decidual necrosis or menstruation. Menstruation is decidual necrosis or menstruation. Menstruation he hor

mone support of the corpus luteum. The degene ration of the corpus luteum is brought about by withdrawal of the protective influence of the beta hormone of the pituitary. If the ovum becomes fer tuized the trophoblastic cells of the latter prevent degeocration of the corpus luteum by stimulating the production of more beta hormone. Therefore the pregravid endometrium instead of necrosing under goes further development and the corpus luteum develops into the corpus luteum of pregnance.

The author shows that the periodicity of the human menstrual cycle does not depend on the own. He believes it is due to the harmonious adjustment of many ductless glands the disturbance of any one of which may disturb it and that if we could explain all of the factors concerned in this nice adjustment we would solve the mystery of life.

T FLOYD BELL M D

# ORSTETRICS

## PREGNANCY AND ITS COMPLICATIONS

Aburel E The Deatf of One Fetus in Twin Preg n ney (Lam rtd un jume u au c urs de l g sses e gémella ) Rer f c d p é td bst 1935 v 50

Noted reports are cases of intra uterine death of one fetus of a twn pregnancy. Such cases are usually difficult to explain as pathological states capable of causing fetal death (as philis chronic nephrits to berculosis) must be of long grade and slow develop ment to affect only one fetus and permit the other to develop normally. The unequal effect pool ably depends upon unequal resistance of the twins to pathological processes. In some instances the lowered vitality of one fetus is due to an accident such as if cornation of a knot or loop in the umb lead cord or a malformation. While the incidence of fetal death appears to be the same among monochorione c and dichorionic trins it is strikingly higher among females than amone males.

The death of one fetus occurring close to term can usually be diagnosed before labor from the onset of counting a dimunation of letal movements a softer consistence of one letal body on addominal paint on \text{`Tay a "dence of letal death and the characteristic chocolate colored ammotic fluid \text{ Fetal death one contring during the earlier months of pregnancy is often overlooked although attacks of comiting fail use of the uterus to enlarge at the same rite as belore and regression in the use of the uterus are pathognom in an and chocolate colored ammotic fluid

is present at the time of delivery

The author has never bserved the onset of lacta tion at the time of fetal death. He believes that lactation is inhibited by the presence of the living fetus in the uteru.

As a rule delivery is uncomplicated the h ing twin being born first. In the author's cases the living fetus was never affected by the presence of the dead twin and was always normally developed.

HAROLD C MACK M D

Schewket F Spontaneous Expulsion of the Nec rotic Tibta fa Fetus Through the Addominal Wall in an Extra Ute in Pregnancy (Fi e spont Au t genry ite in Fis and I tu d r h d Ba hd ken ba G a dt et ut anna) 2 i lib f Ci 93 p 73

The patient hose case is reported vas that of a onan thirty wears of age who had had several still births. During her last pregnancy she felt fetal births. During her last pregnancy she felt fetal seventh month his everenth month. Early in the seventh month she experienced severe pain in the lower part of the abdomen and harmorrhages from the tenth the vagina. These soon c ased and from the tenth

to these teenth of the tenth month there were also dutefy no symptoms. The pans then recurred and a sight inflammatory zone appeared below the unbald case. About fourtiere days after the application of compresses a large amount of pus escaped at this sist and thereafter the fistulous opening persisted for several months with an abundant secretion of

On the patient's admission to the hospital examination dis los d'a firm mass in the lower abdomen which extend d'up to the umbilicus. Pus and air bubbles escaped from the fistula. The tumor did not extend into the pelvis. There was no fever. The Wassermann reaction i as strongly positive.

On the fourth day after the patient's admission to the hospital a love is het hospital a mouth of the fistula the pre-ence of a fetus was con firmed by finger palpation. The fetus was then extracted. The tibus and fibul were found denuded of their soft parts but the foot was still covered by soft trasses. The patient recovered by soft trasses. The patient recovered by soft trasses. The patient recovered the soft parts but the foot was still covered by soft trasses. The patient recovered in the soft parts but the foot was still covered by soft trasses. The patient recovered in the soft parts are soft parts but the foot was still covered by soft trasses. The patient recovered in the soft patient patient patient patients are soft parts and the soft patients are soft patients.

kat uya S The Reticul Endothelial Syst m in Obstet les and Gynecology J p J Ob i & Gy c 93 x 1 356

The eustence of the reticulo endothelial system sas first established by Aschoff and Kiyonon in the last century. This system is made up of cells distributed all of ert the body which include the endo thelial cells of the vascular system the spleen and the fymph spaces and ginds and rodungry connective tissue cells. It is concerned with ab orption of the formation of immune bodies regulation of the metabolism bloo! formation and le truction the production of ferments and bill arp pigments de tyricat in and blood coagulation. Its function is studied most frequently by so called blocking with a foreign substance and by extirpating the spleen

During pregnancy the cells composing the reticulo endothelial system are greatly increased but the function of the system is weakened especially in the toxerms of pregnancy

After blocking the functional restoration of the system is slow in pregnancy as compared with

the non pregnant state

In a study of the function of the reticulo endo thel al system go not torino and drugs it var found that when a smill quantity of coll id was injected from eight to t venty four hour before the injection of a large quantity was increased. The knowledge of the effect is useful in the rappet (as

An important function of the placents is to make the products of metaboli m of the fetus innocuous to the maternal body and the fetus Experiments n which this was proved are cited. The placenta has this detoricating function in no less degree than the spleen and liver. When the function of the reticulo endothelial system was blocked the detoricating power of the placenta was markedly weakened.

In studies of the pigment absorbing function of the liver and spleen in pregnancy by the injection of Congo red it was found that the accumulation of Congo red in the reticulo endothelial system of the spleen and liver decreases gradually and that the reticulo endothelial system undergoes functional disturbances as pregnancy progresses.

The author cites the findings of many investigators on the function of the reticulo endothelial system as determined by the use of Congo red

The Congo red test of the function of the reticulo endothelial system is of value in the prognosis of the toxamia of pregnancy. In cases of poor climination the symptoms tend to be more severe the day after the test whereas in cases with good climina

tion they gradually subside

In conclusion the author says that the reticulo endothelial system plays such an important part in relation to certain processes that it must be taken into consideration in the prevention treatment and prognosis of diseases. In pregnancy the functions of the system are decreased or are kept normal with difficulty Functional disturbance of the reticulo endothelial system leads to incomplete functioning of the placenta Hydrops gravidarum is due to a functional disturbance and the toxemia of preg nancy to a decompensation of the function of the reticulo endothelial system. The solution of the problem of toxemia of pregnancy depends to a great extent on the study of the reticulo endothelial T FLOYD BELL M D system

#### LABOR AND ITS COMPLICATIONS

Gwathmey J T Obstetrical Analgesia A Further Study Based on More Than 20 000 Cases Surg Gyn c & Obst 1930 li 190

Gwathmey states that his simplified technique for obsteticial analgesia is absolutely safe even when used by the novice does not prolong the course of labor and has no unfavorable after effects. It has been employed and in cases in which labor is retarded by a posterior or trains verse position of the head it is of value because of the rest it affords the patient. It is of advantage also because the drugs employed are inexpensive and readily obtainable at any drug dispensing agency. The only known contra indications are colitis true diabetes and auditory disturb

The technique consists of three intramuscular in fections of 2 ccm of a 50 per cent solution of magn nesum sulphate an injection of /s gr of morphine sulphate given with the first injection of magne sum sulphate and a rectal instillation of 20 gr of quinine alkaloid 40 min of alcohol 2/ oz of ether

and liquid petrolatum or olive oil in an amount sufficient to make 4 oz. The author gives his reasons for the use of each drug employed

ARTHUR H LLAWANS M D

Brouha M The Test of Labor in the Management of Cases of Contracted Pelvis (L 'preuve du travaul dans le traitement des bassins limites)
Ret franç de gjube et d obst 1930 vv. 449

As the classical caesarean section may be per formed with safety only before or very shortly after the onset of labor many unnecessary prophylactic sections have been performed in cases of contracted pelvis in which delivery by the natural route might have been possible if a test of labor had been carried out Since his adoption of the low casarean section which he considers a relatively safe pro cedure even after labor has been in progress for some time the author has prescribed a test of labor for all cases of contracted pelvis in order to reduce the number of operative deliveries to the minimum His series of ninety four cases of contracted pelvis (conjugata vera 8 to 0 5 cm) treated in the period from 1927 to 1920 showed a progressive decrease in the incidence of casarean section from 46 per cent in 1927 to 20 per cent in 1929. The frequency of the operation for the various degrees of pelvic contrac tion was as follows

	Cae		Ł
	(P	t £	se }
Conju ata vera 9 g cm		20	
Conjugata vera 9 o cm		44	
Conju ata vera 8 5 cm		57	
Conjugata vera 8 o cm		70	
Asymmetrical pelvis (congenital dislocation			
of hip covalgia)		15	

The frequency of casarean section in the entire group (37 per cent) was definitely lower than in a similar group of cases treated without a previous test of labor. In the cases in which delivery was effected by the natural route there was no maternal mortality. While the author admits that three fetal deaths in this group might have been prevented if cessarean section had been performed in all cases he believes that this would have necessitated at least fifty unnecessary accessary.

HAROLD C MACK M D

Demelin L A Notes on the History and Mecha nism of Forceps Preference for Models with Uncrossed Blades (Notes disstonce et de mecanis me sur le forceps étudié de preférence dans ses modeles à bran he non cro sées) Rv franç de ginte t dobsi 1930 vv. 289

The author presents a brief survey of the history and mechanism of obstetrical forceps with reference particularly to the mechanical principles involved in the types (?) those in which the blades are crossed and articulated at the point of crossing and (2) those in which the blades are uncrossed and articulated at the end of a cross bar Demelin believes that the latter type originated by Chassagan is the less dangerous. It includes a long and

flexible traction levice—hich in Demel n's opinion is superior to the avis traction levice originated by Tarnier—Demel n'has e nstructed ne—model—based upon the pri ciples of the Chassagm, forcer y h ch le sho s in illustrations—Harold C M ex M D

Amm n E von Th Mortality of Vagin 1 and Abdominal Meth ds of D livery in Pi centra Previa (D Mo talt t de 2g l n d bd m in 1 F thind g meth len be 11 nt prz 1) Zt 1 f 6 b th Gy k 93

This d seussion is based on the literature and the experiences of the Wuerzburg Cynecological Clinic

A maternal mortality of 'o'' per cent f llo ing vaginal packing sho's that this method no 1 inger has an justification. Moreover it al pears advis able in both linic and pin ate practice t in linee labor by rupture of the membranes all ne's hone er this possible. In infant mortality of 632 get cent with the Braxton llicks method in linch the child's life is a crifect to sae the mothe is not surprising. When cesse can section is done as an alternative to the Bra ton Illicks piecedue there sults ere not much better as cessarean eet in as performed in only the severe case.

Simple d as ng lo n f the fo t in I re ch ; e entati n impro ed the infant mortalit only se; slightly. Intra o ul r metreu sis high i suited

only for the hospital improved the infant mortality (5.1 per cent) only in cn derably Cresarean section in addition to the latter procedure d d not cause much improtement in either the maternal or the infant mortality. That the rarely practiced extra ovular metreurys should sho a higher mortality than intra ovular metreurys is easily

understood

Versi n and e traction did not greatly improve
the prognosis for the chil and doubled the maternal
mortality. It is therefore contra indicated on prin
ciple. With simultaneous u e of ersairean section
her results is real ghtly improved. Vag nale carean
ection which caused a note orthy improven
in the indiant mortal it is it the preferred method of
delivery of only a few obstetricians. Videomial
cersairean set on with a maternal mortality of 73
per cent will not say a maternal mortality of 73
per cent will not say e more mothers than consist
at e measures and 1 is to be preferred only when
pre er ation of the child's life appears as especially
urgent

In conclusion the author questions whether e are n t g ing too far the the extended ind cations for exerting nection and in their it in not better to life or aginally and in the interests of later fertility place in the backgr und the life of the already injured child W R. B ME. B (M. B ME. B).

# GENITO-URINARY SURGERY

# ADRENAL KIDNEY AND URETER

Lichtenberg A von The Surgical Treatment of Renal Insufficiency (Chirurgische Behandlun der Viereninsuffizienz) Zischr f urol Chir 1930 p 99

Less is to be achieved by treatment in the uncomplicated forms of secretory insufficiency of the kid neys than in any other forms The only result is the greater or lesser prevention of further progress of the condition. In cystic kidneys, for example, the evacuation of the cysts by ignipuncture (Fayr) re lieves the pressure upon the kidney Dietetic treat ment is also beneficial and calculi and infection can be treated with good results. Many cases of bi lateral calculous disease chiefly those with stones filling the renal pelvis belong to this group. These stones (mostly urates) are formed early in youth and are not suitable for surgical therapy. Only dietetic measures are applicable. Only with the advent of

infection is operation to be considered

The mixed forms of secretory insufficiency are those in which large bilateral losses of parenchy ma are associated with some form of infection or stasis The insufficiency is induced by a summation of noxæ As the disease picture varies greatly the surgical measures are based upon experience ac quired in the treatment of single kidneys and are ap plied in the same way to the bilateral disease. In calculous disease function is often restored by treatment of the infection. In spite of theoretical objections clinical experience suggests that the in sufficiency is due to the infection. To such cases be long those of chronic recurrent pyelonephritis The pyelonephritic contracted kidney as the final stage of the disease readily responds to decapsulation and drainage Secondary infection of the kidneys to chronic disease of the male or female adnesa can be cured by extirpation of the adnexa

In insufficiency from congestion the involvement of the renal parenchyma appears to be a secondary factor The site of involvement is the peripheral portions of the urinary tract This type of insuffi ciency can he influenced favorably by relieving the peripheral obstruction. The attempt should be made to improve the function of the kidneys before

removing the cause

Eisendrath D N Hydronephrosis Due to Ob struction of the Renal Pelvis by One of Two Main Renal Arteries J L 1 030 XV 173

In the case reported in this article symptoms of urinary obstruction had been present for a year The right kidney was normal but the left kidney con tained 30 c cm of clear residual urine and showed marked ectasis of the pelvis and calyces The con dition was attributed to obstruction close to the

ureteropelvic junction due to a lower pole vessel or ureteral stricture. As the symptoms were relieved by non surgical treatment operation was refused

Following an acute neisserian infection with in volvement of the left kidney the symptoms recurred The ureteral urines were clear but the left kidney contained 100 c cm of residual urine and its function was definitely impaired. On X ray examination of the left kidney the shadow had not diminished at the end of twenty minutes At the end of fifteen minutes a definite difference was observed in the density of the opaque medium below a convex line at the lower border

At operation the left kidney was found extremely mobile It presented marked ectasis of the pelvis which ended abruptly just above the opening into the ureter. The lower part of the pelvis was almost occluded by an artery arising from the aorta and

passing to the lower pole

The pelvis was divided at the obstruction and the distal segment which included the ureter was reimplanted Nephropeys was then done However nephrectomy became necessary two weeks later on account of infection. The vessel which caused the obstruction was one of two main renal arteries On injection it was found to supply a large area of the Lidney

The poor result of the operation was probably due to the recent infection and failure to drain the upper

part of the pelvis

Cases of obstruction of the renal pelvis by branches of the maio renal artery have been re ported by Gruber Bing and Gregoire but this is the first recorded case of obstruction by one of two main renal arteries

Ligation of a polar artery may he followed by necrosis Numerous variations in the renal arteries have been found. According to the literature lower polar arteries from the aorta were found in 5 per cent of 1 337 kidneys and 2 main renal arteries were found in 11 per cent of 1 319 kidneys

It has been claimed that abnormal mobility of the Lidney plays an important part in obstruction due to blood vessels CLAUDE D PICKRELL, M D

Lengutre G The Treatment of Pvelitis and Pve lonephritis (Traitement des pyeliti and pyélo n(phntes) 1rcl d mal d reins td gane g it inat \$ 1930 1\ 624

The treatment of pyelitis and pyelonephritis should be preceded by a thorough examination of the genito urinary tract \s a rule restoration of the anatomical integrity of the urinary tract is sufficient to put an end to the infection. The author deals with cases which present no gross changes requiring surrical treatment and discusses in detail nearly all

Korr (Z)

of the various medical treatments that are employed—bygenic d etary bydrotherapeutic antiseptic local and biological—together with their special i d cations

Mialinization gives excellent results Potassium salts should be avoided as they provoke diarrhera Sodium hiearbonate should be employed in large doses. This has little effect on the pyuria but as a rule greatly releves the general symptoms.

Of the urnary antiseptics urotropin is probably the most effective Asit acts only in an acid urne it should be combined with phosphoric acid or so dium benzoate Because of the irritating effect of the formuldehyde which is capable of producing hematuria the author believes that the does should not ecced ag mper day. However some urologists notably the Germans recommend as much as 8 gm per day. Urotropin may be given intravenously Hamorrbagic forms of pyelitis do not constitute a contra ind cation.

Colloidal silver preparations have been administered internally (Marion and Aummer). They ppear in the urine here they have an antiseptic

action The dose is 60 mgm

Certain dyes notably acrilla ane and mercuro chrome appear to be of value when injected intra

ve ously or applied locally

Neoarsphenamine (o 15 to 0 30 gm given intra venously every fi e or six days) has been employed with considerable success. The manner in which it exerts its effect is not known exactly.

The balsamics are in general contra indicated e cept hen the bladder symptoms are intense

The favorable effect of Ia age of the bladder on pp clints was first noted by Guyon I astean demon strated that this procedure provokes a reflex con traction of the renal pelis and the u eter and causes changes in the urnary secretion A tend solution of vater or borne and is injected very slowly through a soft rubber catheter until di comfort is experi enced. After a few minutes the catheter is removed and the patient allowed to urn te Except in pychits of pregnancy the effects are ery lavorable

Lavage of the k dney pel is g ese cellent results
A retention ureteral catheter may be employed
under certain ircumstances not bly in pyel tis of

pregna cy

From both the practical and the theo etical stand point op no so concerning accines have undergone radical chinges in recent years. Formerly it as supposed that vaccines acted by stimulating the formation of specific immune bodies in the blood Recent vork seems to show that the so called mune bod es? e nothing to do with immunity but represent incidental changes in the blood. It appeas from the studies of Calimette and Besredha that immunity is la gely a local phenomenom as Metchinkfol' originally tudgit. Ho ever vaccines cause the non-specific phenomenon of shock which as is well known may be of therafeithe value. The author discusses the arrows types of vaccines and their applications.

In the d scussion of the use of sera the serum of Vincent receives most attention. This is a bacillus coll serum prepared by injecting horses with colon bacilli of urmary origin. Subcutaneous injections combined with injections directly into the pelvis of the kidney appear to give most e cellent results.

In the use of bacterophage a strair must be employed which is adapted to the invading organism. From 2 to 3 c cm are injected subject neously every other day. The ma imum number of doses in four at the same time from 10 to 20 c cm are given by mouth and a like amount is injected into the bladder to be reta ned as long as possible. No unnary antiseptics should be given. The urine should be all alien.

Le Loner and Legueu have obta ned very saits factory results with the vace ne bacteroph ge of Potocks and I isch. The bacter ophage solut n is resoun with organisms several times a product rich in bacterial prote ns and bacteriophage being there by obtained. This is injested duily when the stomach is empty for ten days or until some effect is obtained or is given subcutaneously.

Th produce shock for shock therapy electrargol peptone milk blood and ster le pus have bee em ployed The results are diversely evaluated

In the management of varu us forms of pyelitis and pyelonephritis local treatment by ureteral catheterization occupies a prominent place e-pecially in cases in which there is evidence of elention with high few Of the biological agents the serum of Vincent is recommended with the most assurance.

Mathé C P The Differential Di gno is and Modern Treatment of Py ion phritis J Ur!

This article is a review of 447 cases of pyclo nephritis studied by the author in the past th ricen years. Mathe defines and differentiates between pyelits and acute pyclonephritis. He states that the 'viry diagnosis of pyclonephritis is uncertain Ho weer be reviews the usual recogn zed 6 gins of filammation of the calivos and renal pelvi

The causes of pyelonephrits include intestinal stass (enteroranl syndrome) four of infection in the teeth and tonsist (green producing strept coct) the cars sinuses postate seminal vesicles fallop an tubes ute me cervix and respiratory tract and un nary stass in the upper unnary tracts econdary to ureleral stones or strictures undue mob lity of the doep pressure on the ureter by an aberiant blood vessel adherent bands or a fetus or to valve obstructions in the posterior urethra congenital steno urethral stricture median bar formation hyper trophy of the prostate bladde stones neurol g cal defects in the neck of the bladder or stones in the kidney

In acute cases in which cedema frequently cause obstruction at the pelvi ureteral junction ureteral catheterization and lavage are i dicated. In chronic pyclonephr tis conse vative treatment shiuld be

tried first and surgical measures used if conservative treatment fails to give relief The conservative treatment consists in the eradication of foci of in fection and lavage of the renal pelvis through an indwelling ureteral catheter. The catheter should he changed about every three days The solutions used for the lavage are silver nitrate mercuro chrome acrifiavine and acid fuchsin In internal medication methylene blue caprocol pyridium and methenamine have been used to advantage The sur gical measures employed include drainage of the kid ney decapsulation nephropery and nephrectomy

Of the 347 cases reviewed only moderate improve ment was obtained in 155 hecause it was impossible to clear up in the renal infection. In 45 there was no improvement. In 15 of the latter nephrectomy was done on account of progressive kidney destruc MAURICE I MELTZER M D

Joyce J L A Study of Staphylococcal Disease The Renal Cases Guy s Hosp Rep Lond 1930

The author is of the opinion that staphylococcal infection of the renal cortex is blood horne and that perinephric abscess in this disease is due to direct extension of the infection from the renal cortex. He cites fourteen cases in support of these views states that the infection may remain latent for a long time and he manifested first hy a fully developed abscess As a rule staphylococcal infections of the kidney will heal after incision and drainage Occa sionally recovery occurs spontaneously In some cases however the disease progresses to complete destruction of the renal tissue

The clinical features diagnosis and treatment are discussed hriefly

C RUTHERFORD O CROWLEY M D

Mistakes In the Diagnosis of Renal Tuberculosis (Des erreurs dans le dia nostic de la tuberculose rénale) J d'urol ned et chir

Clinical and cystoscopic examination reveal proh able signs of tuherculosis of the kidney such as stuh born or recurrent cystitis tuhercle bacilli in the hladder urine and ulcers in the bladder on the side of the diseased kidney Catheterization of the ureters discloses such signs as the presence of pus and tu bercle bacilli in the pelvis of a kidney with defective function However in spite of all modern methods of diagnosis the surgeon often exposes a Lidney that does not show the slightest sign of tuberculosis on inspection or palpation

The author reports two cases in which he removed the kidney on the basis of the clinical and laboratory findings although no lesions could be detected and the results seemed to justify the procedure. He re ports also a case in which the urine from one Lidney contained pus and tubercle bacilli but it was the other kidney that showed defective function He helieves that in the first two cases very slight tuber culous lesions must have been present and that in

the third case some disease other than t 1 was responsible for the disturbance of man f in the other kidney

In conclusion Martin urges all s m their cases of renal tuberculous very publish any observations that mil 2 1 14 accurate diagnosis of the cond to

ADDITO LA Fredet M The Present Day Surgers' Trea of Infected Renal Lithland (Tra ~ gical actuel de la lithase tende i méd 1930 x 8/8

Fredet discusses 5 operat 5 tool ment of infected renal lithia 1 (1) pic extended nephrotomy (3) pie nephrostomy and (5) nephroctomy

Brongersma advises primary to 1 ... of conservative operation in all Ca ... lateral renal lithiasis if the co a Lidney offers no contra ind citon F agrees with Heitz Boyer and the lithiasis should be treated as the He cates the indication 3 t which are accepted by Marry 4 mmediate prognosis of primary to ter than that of extended per transport ity of the former is between 82 de reality of the latter at 14 months the mortality of the latter is to the mortality of the materials to cent. However, the trimoler in mephrectomy may be clouded by a material of uninary fistula onto nephrectomy may be solved on the purulent or urnary fisfulz orthogone or he other kidner of he are purulent of the other kidnes of the prence in the other kidnes of the prence de plant of the rence in the the theather a recurrence develope the author a recurrence develope

Secondary nephrectomy officer Secondary means of curing a persubation of the secondary harmon means of curing a pursuant to one of the secondary harmy of the quent after extended mph. quent atter economic acted also for recurrence ast

heen operation of the principal indicates | fected lithiasis in a solution | fected lithiasis in a solution | is the only means by which it is the only operation of the principal indicates | feet | drainage of an americal their is the only operation by the bilateral lithnasis when their greatly reduced Under their greatly reduced Under their states of the states of phase reduced output the greatly reduced operation of necessity The same as that of extended the same as the same operation of that of extended the same as that of extended ing the end results it is not one of the the intervention was an option the presence of ing the intervention was a wind formed in the presence of some function

mal function
nal function
Extended nephrotomy
exposes the patter hence chef complication is seen the fourth and twentieth the fourth and exemple the fourth and exemple the fourth are the fourth and the f 360 cases of infected h 4mmm

- 2m c

15

old nd a dose flated ng the s the ıld be ure is cond

nephrotomy hich ere collected by the author death occurred in 61 (17 per cent) llo ever in spite of the unfa orable immediate prognoss the remote results are gene lly satisfactors Secondars fistulæ and recurrence of the lith as s are no more frequent than after pyelotomy In some cases how ever the function of the kidney may be considerably d minished

I velotomy causes much less operative shock than nephrotomy It is seldom followed by secondary hamorrhage and is responsible for generalization of the infection much less frequently than nephrotomy in which absorption of septic products may occur in the region of the renal inci ion. On the other hand Heitz Boyer had a cases of embolus in 22 cases of pyelotomy for infected renal lithiasi however the immediate prognosis is much more la orable than that of extended nephrotomy and the remote prognosi is as good as the r m te prog nosis of the latter operation

When calcult are present simultaneously in the renal pelvis and the calvees or renal parenchyma the pelvic stones m v be extracted through an ordinary pyelotomy neision and the others though small inci one in the renal na enchyma. The partial incisions bleed very little and such bleeding as occu may always b stopped by sutures If an nfarct result t vill be small and vill not greatly nou e the

function of the kidney

The seve ity of extended ephrotomy led Heitz Boyer n q13 and agai in 10 3 to use an extended py lotomy in cases of very la ge stones situated partly in the kidney pelvis and pa tly in the kid ey in thich a simple pyel tomy ould n t be possible Marion ho al o has adopted the p ocedu sc bes it as a pyelonephrotomy reso ting to an extended nephrot my II itz Boyer and Marion p olong the inc on of the pvel toms on the kidney itself in the direct in of the stone. Their techniques are described by Fredet with illust ations Ma ion u es his procedure for calcul of the renal which exte d far to the kidney in nly 1 d recti n and for co al shaped calcult which do not penetrate far into the Lidney

I apin ecommend inf rio pyelotomy. This appro ch is quite sure to avoid v scula 1 sio s When the kidney cannot be exteriori dit sinea ly alvavs possible to incise the lover edg of the pli by swinging the lo er pole of the kidney up and out wa d The inc s on may be prolonged on the renal parenchyma and the nlen r cally opened an ex tended infe or pyelotomy be ng thus accompl shed

The first equisite lo pyelotomy is the poss bility of e teriorizing the kidney so that the po terior su face of the renal pelvis may be denuded a d inci ed under the control of vision Another requirement i an exact knowledge of the number and location of the stones The s ze and shape of the stones will not cont a indicate the operation if the extended pyelot omy of Marion and the comb ned angular socis ons of the ren I pely s are used According to Albarran pyelotomy s contra indicated by infection sufficient

to require drainage of the renal pelvis but may suc ceed when the urine is slightly infected. He tz Boyer performs pyelotomy in infected renal 1th sis provided the kidney is not reduced to a se ies of pyone phrotic p ckets The infect on may often be weak ened by local dis nfection befo e the operation and the lesions and renal pelvis can be disinfected by the introduction of intrapelvic or intracanalicular drains at the time of operation When the kidney cannot b extenorized and hen i fer or pyelotomy is mpo sible the removal even of sto es in the enal pel s requires an e tended nephrotomy I cases of sever infection it is sometimes necessary to open the kid ney and drain the multiple pyonephrotic pockets

While there are undoubtedly complications of n fected e I lithiasis which fed it an emerge cy operation m ny cases of pyel ephritis and calc lous pyonephrosis may be benefited by pre operati e catheters ation of the diseased urete and the use of

a retention sound

The treatment during the first fee days after op r ation for infected renal lith 15 should consist in the introduction of an intrapely c or intracanalicula drain and antisentic la age to ash out d bris that may have been overlo ked and t disinfect the ren i cav ties The patient should be atched f r recu rence 1 ralo g time The renal pel is must be kept septic for three months and its onditio dete mined twice a year Lspec ally to be combated is an ent rorenal infection According t Heit Boye the is usually the basis of infected I thias or its recu rence It requires medical treatment supple mented by vaccination by m uth anti colon bacillus serothe any and hypenic a diletetic mea u es

BLADDER URETHRA AND PENIS

Coff y R C R dical T eatment of C nce of the Clf 11 1 M d 93

The auth r briefly summarizes his theories regard ng the treatment of that type of cancer of the blad der for which no cu e bas as yet been found. He call attent on to the val elike action or duced in the ntramural portion of the ureter and its practical application in ureteral transplantation. If gives a b ief outline of his technique for bilateral transpl n tation of the ureters by the tube method in which the ureter 1 made to run immediately under the mucosa for a d stance belore it opens into the lumen of the bo el In the last year he has performed bi lateral tr nsplantation of the ureters in thirteen cases without any deaths He advises total cystecto my or destruction of the bladder with large dose of radium after the ureteral transplantat on

C I THE FORD O CROWL Y M D

#### MISCELLANEOUS

Intra en us Wolb at A L and Hi seh I S U gaply MdJ&R

Sw ck modified selectan neutral by sub tituti g sodium glycin lor the meth I group nil decr 11 g the iodine content. The resulting product uroselect an is non toric and very soluble in water. It has an iodine content of 42 per cent and is excreted through the kidney in eight hours with no chemical change. Iodism has never been noted following its use. It is of value in demonstrating renal function as well as in urography. When no renal shadows are seen after its injection the kidney is either absent or its function has been largely destroyed Intravenous urography with troselectan is possible in conditions in which cystoscopy is contra indicated such as severe hamorrhage inflammation of the adnera and enlargement of the prostate

A 40 gm package of the uroselectan is dissolved in 80 ccm of heited double distilled water. The solution is then filtered twice sterilized by heating for twenty minutes over a steam hath cooled and injected intravenously in two snjections separated by an interval of from two to five minutes. The renal pelus becomes visible five minutes after the injection but visualization of the entire urnary tract requires from fifteen to twenty minutes.

BENJAMIN F ROLLER M D

Kretschmer H L Intravenous Urography
Sirg G, iee & Obst 1930 h 404
Nyman A Intravenous Urography in the Diag
nusls of Urological Diseases in Cluidhood
S x G, ince & Obst 1930 h 499

In a series of eighty five cases of adults and children of both seres which are reported by Kerr schurz uroselectan was found to be non irritating and nontoxic. I local reaction or pain occurred in only one or two instances and a systemic reaction such as chills and fever in none. Only such transit ocrasionally associated with flushing of the face and head were noted. In ten infants and children the tolerance for uroselectan was particularly good Henre it appears that the use of the drug as a diagnostic aid is of great importance prior to cystoscopy in children. One child died twenty one days after a second injection but its death could not be attirbuted to the uroselectan. The blood chemistry in this case showed marked mitrogen retention.

The congenital anomalies that were easily demon strated included bifid renal pelves and horseshoe kidney In a case of solitary kidney with a stone in the pelvis on one side no shadow appeared on the other side and cystoscopy and chromocystoscopy failed to reveal a left ureter. The diagnosis of solitary kidney was verified at operation. In a case of polycystic kidney the pyelograms were not as clear as those of ascending utography The best pyelograms and ureterograms were obtained in cases of hydronephrosis and hydro ureter In cases of unilateral involvement the affected side ap peared in marked contrast to the normal side The shadows of renal and ureteral stones seemed to be intensified by the uroselectan and it was possible by the use of this drug to determine whether a ureteral stone was the cause of obstruction

Because of the rapid accumulation of the proselec tan in the bladder the bladder should be catheter ized when the lower end of the ureter is studied The rapid disappearance of ureteral dilutation fol lowing the passage of stones and the dilatation of strictures can be easily followed with proselectan In renal tuberculosis its use gives satisfactory re sults particularly when ureteral catheterization is impossible. It is a simple means also of investigating the remaining kidney without catheterization of the ureter of that kidney In malignant tumors of the Lidney filling defects appear but when the destruc tion of the kidney is marked intravenous pyelog raphy gives less clear pyelograms than ascending urography At times retrograde pyelography af fords a check

The author has used uroselectan also for ascending py elography diluting the standard solution with equal parts of water It gives very clear pictures without causing a reaction. It is of great aid in the determination of the origin and location of obscure abdominal pain and in the differentiation of lesions of right upper quadrant of the abdomen and the soleen.

In conclusion the author emphasizes that the older methods of urological study should still be used before surgical procedures are attempted

Hyman states that intravenous urography is of even greater value in the cases of children than in the cases of children than in the cases of adults. Uroselectan renders the urman tract visible and yields information as to the function and dynamics of the tract without instrumentation. It may be used at all ages and requires no anæsthetic. It is absolutely non town.

The renal pelves ureters and bladder are out lined and the kidney shadow stands out in relief Lack of visualization may mean either a non func tioning kidney temporary inhibition of function or absence of the organ Functional studies are made by determining the amount of proselectan excreted in the unine. Normally 95 per cent should be excreted within from six to eight hours about three fifths during the first two hours one quarter during the next hour and the rest in the following four hours When the kidneys are diseased or damaged the rate of excretion is proportionately decreased In the presence of stasis uroselectan has been found in the usine six or eight days after its injection When the Lidneys are normal the specific gravity of the urme is greatly increased after the injection often reaching as bigh as 1 045 within a few hours When the kidneys are diseased such an increase is not noted

The technique is simple A child seven years old is given half the adult dose (which is ao gm) and a child two years old one quarter of the adult dose Compression over the hladder region by an inflated, ruthere bag for ten minutes prior to and during the time of roentgenography greatly intensifies the pyelogram However two pyelograms should be made without compression. The first exposure is made fifteen minutes after the injection the second

from twenty to thirty minutes later and the third from twenty to thirty minutes after the second Subsequent exposures depend upon the findings of the first two and on the puthological process present In the presence of stasis pyclograms made lite give more information than those made early

In many instances cystoscopic pyelography is dis pensable. When renal function is poor intravenous pyelography is usually unsatisfactors and must be supplemented by retrograde pyelography In cases of renal neoplasms in children which have destroyed the entire kidney visualization is poor and the older methods give more diagnostic information. How ever a hen there is a definitely palpable tumor on one side cistoscopy may be dispensed with if the other kidnes can be visualized normally I selitis is char acterized by blunting of the major and minor call ces and changes in the outline of the wreter. The method is invaluable in the study of congenital anomalies In pronentrosis and hydronephrosis visualization depends upon the amount of functioning renal parenchyma. It appears that with good visualization the kidneys are probably functioning normally but other factors (stasis polyuma roentgen tech nique and obesity) also influence the intensity of the

The field of application of intravenous urography is very broad. In children the method will probably be used more as a routine procedure than in adults especially in cases in which cystoscopy or ureteral catheterization is impossible in cases of hematuria, and in cases of transplanted ureters.

In t enty to cases of children rel able diagnostic data nere obtained in most instances by intrivenous urography alone The method as of particular serv ice in four cases in hich the ureters could not be visual zed because of severe cy t tis. In obstructive condits as the degree of vs unlization is not entirely dependable as an index of impairment of renal function Even though cons derably damaged suff crent substance may accumulate in the hydronephrotic sac to tender visualizati a sati factory In large uninfected by drone phroses tagal zat on of a normal opposite I dney may affo I sufficient diagnostic data on which to bas operative indicate as vishout custoscopu However in pyura tis always ad is able to resort to cy toscopy and ureteral catheteriza tin even then the other kidney is apparently normal to determine the presence of infection. In the presence of poo enal function with mark 1 retention in the blo d this p o edure is contra indicated

Lapecially in children int acenous pyelographs obviats all the distinantials of ret og ade pyel graphy. It settles once if all the question if simultaneous bilateral pyelog aphy. It offers an excellent method of studying dynamic renal and ureteral cond tons and appears to offer a route genog aphe function aid at 11 ever until it has been given a more extensive trail it should be supplemented by cystose pre vam nation

L & S NELL ELT M D

Paradis J The Treatment of Gonorrheea with Ac idin Sites (T tement d 1 bin g pa le I da la) i h d m l d i d

Since the introduction of intravenous treatment for gonorrhota in 1912 various remedies have been arimmstered intravenously in this condition. The author believes that the most effe tive is di amino methylacrid n and its derivatives gonactine trypa flavine and chromacrine He thinks they are in d cated in both complicated and uncomplicated cases The salts of acridin may be given intrave nously or used locally for arrigation of the urethra and bladder I arad's gives intravenous injections of so c cm of a 2 per cent solution every other day In most cases to elve injections are sufficient. The salts of ac 1 in are intensely bactericidal ne ! they have a corrosive action the injection should be green at a different site each time in order to prevent stritation of the endothel um of the vessels Care should be taken also not to inject any of the solution into the tissues around the vein Actidin has a photosensitizing action. Therefore patients who have been treated a 1th st are much more sensitive to

sunlight than other persons The author has used acrid a salts in the treatment of thenty five cases of gonorrhora both acute and chronic most of them complicated by cystitis o chi epididy mitis or gon trhanl theumat sm F ghteen (72 per cent) sere cure ! Treatment with acridin constitutes a total irrigation of the urethra both the surface and the deep tissues It flen cures cases that rest t other forms of treatment. In r cent gonorthera and its complications a cure is obtained relatively ramidly. In the acute condition the dis charge sa stopped almost immediately the pain s relieved and the time required for cure is much short r than with the usual irrigation treatment terred n has a particularly good eff ct on the joint complications of gonorrhora Sometimes a cu e is obtained only gralually as the antiseptic is chimi

nated slo is over a long pe tod of time

on a fishiante & Depart

Thomp on R Urina y Lithiasis A Report n

Ca es Occurring Du ing the Y 9 1910 to 1929

In lusts G y II p h p 1 nd 93 1 x 8

The author classifes u mary calcul into two
grups as fell us (1) travelling stones including
(a) there that mass and (b) those that become im

(a) the se that pass and (b) those that become impacted in their passage and (a) re ting stones. He reports a series of cases of each type. In discuming the diagnosis of urinary, I thinks he

emphasizes the importance of a calful complete cyst sc pic examination and de cribes the various

Ind ngs of roentgenograph)

In the discuss on of the treatm nt the conserva

tion of septic k dney particularly in bilateral tend I thiasis is urged. The author reports several cases which shi i that a badly infected k dney if p operly d ained urgically may ecover and function well. The majority of resting stones are found in the pelvis of the kidney but occasionally such stones are discovered in the bladder during examination for some other condition. It is emphasized that the surgeon doing renal surgery should make an examination for abnormalities before deciding on his procedure.

In discussing bladder stones the author calls attention to the danger of air embolism when the bladder is distended with air Complications of bladder stones include prostatism stricture of the urethra due to infection and traumatic stricture of the urethra. In some of the cases reported the nuclei of the stones were formed by foreign bodies in the bladder. In several instances stones were found in the prostate. When lithority is done with difficulty drainage of the bladder is necessary.

Latbotrity should never be attempted without a preliminary cystoscopic examination

In the cases reviewed the majority of the stones which were passed by the patient without aid came from the right kidney. A greater number of stones were present in the right kidney than in the left. The impacted stones were found most commonly in the right ureter. Vesical calculi were found in forty males and three females.

The author emphasizes the very unfavorable prognosis in cases of bilateral renal calculi. In the majority of the cases of this type there is marked damage to both kidneys. Stones in the parenchyma of the kidney are extremely rare. Two cases of renal calculus reviewed were probably due to ascending inflammation from the bladder or pelvic tissues.

# SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS

CONDITIONS OF THE BONES JOINTS
MUSCLES TENDONS ETC

Geschickter C F and C peland M M Tum s of the Giant C II Group A Pathotogical Entity 1 h S g 93 1 145

Geschickter and Copeland helieve that on the basis of their relationship to the resorption of cartilaginous bone the former chinical entities bone cyst giant cell tumor of the long hones and skull epulis of the alveolar horder and giant cell tumors of the vanthoma group found in the tendon sheaths are pathologically related. The solitary bone exst a form of osteitis fibrosa 1 an arrested giant cell tumor The age curves of the bone cyst and the giant cell tumor show that as the healing power of the bone cells declines with the advance in the age of the patient hone cysts decrease and giant cell tumors increase in frequency. The pathological process involved in these turnors is associated with the formation of ne v bone from cartilage. It is be heved that the giant cell tumor preserves its em hryonic hone destroying functions and is funda mentally related to the proliferation of osteoclasts in hone ne ly formed from cartilage. Most giant ceff tumors of the skull have been traced to association

ith cartilagnous centers of ossification. The epulis i related to the process of resorption of the temporary bony structure of the deciduous teeth G ant cell tumors of the tendon sheaths erroneously classed as xanthomata are in reality tumors of the

sesamoid bones

Trauma is related to the bone cysts and the giant cell tumors not as an indefine etiological factor but as an initi I event causing disruption of the cortical hod supply inch results in an imbalanch thewen osteodastic proliferation in the medulla and reactive compact bone in the cortex. The age of the patient the site of the injury the rate and extent of cat illaginous ossification at the end of the bone and the nature of the bhood supply in the affected region are predominant factors in the pathology of these tumors.

Factors in g nt cell proliferation are

A normal hi togenic proliferation of giant cells which occu s only in calcified cartilage or the tem porary bone of the roots of deciduous teeth

2 Injury and necrosis of an area of cortical bone overlying an ctively oss fying epiphyseal or meta physeal region

3 A response on the part of giant cells and capillaries in c ncellous bone to the need for collat eral circulation

4 Disturbances in calcium and phosphorous metabolism i h bits g no mal growth and defensive reaction of cortical bine. Lizzab Th Ca NS ON

Massart R Joint Malformations of Obst trical Olgin (L m if rm to t la dog obstêt 1) B ll t êm S d el g d Pa os sot

Attention is called to certain malformat in so the shoulder and hip due to obstettical trains which are often helies ed to be congental. The author has found several fractures of the clavele in child on hich were mistaken for paralysis of the arm. Such impures occur in debirery accomplib held u der difficulties often in rural districts by practitio commodifies unaccustomed to manging dystocia. The author reviews the cases of six pat ents with a shoulder injury and one patient: it is a hip injury due to obscure ob tetrical trauma. All of th. patie its were followed for ten years.

The injuries at the shoulder which have hee called subluvations are oft in accompanied by fe sions of the brachial plevus caused by stetching Malf mation may occur without paralysis and paralysis without mallotmation. They fant sinjured shoulder is very tender to touch and manpulation and is often held immobile in in ard rotation which hings the epicondyle forward causes a marked detopectoral furrow and leads the diagnoss of paralys so the arm. In many such cases there is only a separation of the epiphysis of the upper end of the humerous and the arm should be immobilized in e ternal rotation. If the a m is left in major to the separated epiphy 1 may grow on at an angle of go degrees with the arm, in marked internal rogodescreamed the second of the separated epiphy 1 may grow on at an angle of go degrees with the arm, in marked internal rogodescreamed the second of the separated epiphy 1 may grow on at an angle of go degrees with the arm, in marked internal rogodescreamed the second of the secon

Primary ray examination of the newborn usually fails to give information with regard to joint injuries on account of the easy penetration fails the epiphyseal cart lagnous area by the Yaya but a series of roentgenograms made over a peri dof several years ill eventually and in the diagno when le ions of the shoulder and hip due to obst treal trains are unrecognized they interfere with the normal development of the e-joints.

KELLOGG S ED M D

St Kartal Chondromat sis of the Joint Cap ule

Chondromatous of 10 nt capsules vas first de senbed in 100 by Retchel There are two theories as to the cause—the theor, accepted by Lever which ascribes the condition to tumor goot the and the theory accepted by Lotsch and Beckman I a sson which ascribes it to chrone; intach and However the tool gy is still doubtful as the tissue I as never been studed in croscopically Because of the evulberance of arthrithe formatin of ca talage in the capsule Kappi regards the condition as a mosphast change. The auth is states that there are

graded transitions between osteochondritis dis secans on the one hand and arthritis deformans on the other and also between the latter and chon dromatosis He concludes that chondromatosis of

joint capsules is a disease entity

The clinical diagnosis is difficult because the symptoms may be obscured by those of some other chronic non inflammatory joint disease or because the chondromatosis may produce no characteristic symptoms. In a fully developed case the roentgen findings must be differentiated from those of osteo chondritis in which no cartilage foci are found in the soint capsule those of arthritis deformans in which cartilage exuberance arises in the synovial ville of the joint and those of calcareous bursitis hamophilic joints and myositis ossificans

The author reports eleven cases of chondromatosis of the joint capsule. The patients continued to do heavy nork under conservative treatment or with no treatment at all. In most cases the main object of treatment should be to prevent the occurrence of secondary arthritic changes Operation is indicated only when the chondromatosis causes mechanical interference with joint function

RUDOLPH S REICH M D

## key J A Traumatic Arthritis and the Mechanical Factors in Hypertrophic Arthritis J Lab & Clin 11 d 1930 TV 1145

Pollowing a discussion of the various theories that have been advanced and a review of numerous investigations that have been carried out by various investigators with regard to the cause of hypertro phic arthritis the author reports studies he has made on rabbits to test the mechanical theory of the origin of the condition. He states that he has produced the pathological picture of hypertrophic arthritis in the knee joints of tabbits by resecting a small rectangle of cartilage from the patellar surface of the femur In more recent experiments on rabbits he attempted to produce it by the manipulative production of knock knee. Of the animals of the latter group which grew to adult life all showed definite chronic arthri tis of the hypertrophic type with osteophy tes around the cartilage margin more or less hypertrophy of the involved bones and hyperplasia of the synovial membrane Honever the value of the experiments was lessened by the fact that all of the knees showed evidence of definite articular damage occurring at the time of the manipulation. The lower end of the femur had been fractured the femoral epiphy six had shipped or the crucial ligaments had been ruptured What was produced was traumatic arthritis from disorganization of the joint or cartilage and bone injury and not chronic arthritis from faulty me chanics in weight bearing

With regard to the occurrence of chronic arthritis in man as the result of trauma key cites cases in which it developed in a metatarsophalangeal joint after a violent kick in the knee joint as the result of strain due to genu valgum and following an injury to the internal semilunar cartilage and anterior cru

cial ligament in joints which had been fractured and imperfectly reduced and in the first metatarso phalangeal joint from the pressure of short shoes

In conclusion key states that he has not attempt ed in this report to prove the mechanical functional theory of the disease. He has intended merely to emphasize that the pathological picture of hyper trophic arthritis may be produced by mechanical insults to a joint that in many cases the symptoms can be relieved by rest and the correction of static defects and that the basic cause of the disease is PREDERICK A TOSTES M D still being sought

### king E J S On Some Aspects of the Pathology of Hypertrophic Charcot's Joints B 1 J Sr g 1930 XIII 113

Hypertrophic Charcot's disease is associated with nervous lesions of many types such as tabes general paralysis of the insane syringomyelia paraplegia myelitis and peripheral nerve lesions

In this grotesque form of osteo arthritis the exaggeration of the processes concerned is due to frequent traumatisms permitted by bone and joint anysthesia Small pieces of dead bone are evident in the articular ends of the bones. There are also areas of great cellular activity with fibroblastic proliferation and a large development of new bony and cartilaginous tissue suggesting a neoplastic rather than an inflammatory proliferation

The processes involved are anaplasia of the con nective tissue cells to a primitive type with subse quent differentiation in various directions stimulus for the anaplasia may be the products of dissolution of the small pieces of necrotic hone WALTER P BLOUVE M D

Morton C B Osteogenic Sarcoma or the Hu merus A Review of the Literature and a Case Report 1 cl S g 1930 vo 444

Morton reports a case of telangrectatic sarcoma of the humerus in a mulatto boy seventeen years of age The tumor grew rapidly only four months elapsing between the onset of the symptoms and death. It presented the characteristics of a low grade osteomy chitis with a relatively acute on set pam tenderness swelling local heat fluctua tion fever and leucocytosis. The roentgen diagnosis was osteogenic sarcoma but chronic low grade oste omychitis could not be entirely excluded

Osteogenic sarcoma of the telangiectatic variety is very vascular. It may even pulsate. It develops very rapidly destroying the shaft of the bone caus ing pathological fractures and soon forming met astases. It consists of a series of communicating blood sinuses lined by hyperchromatic spindle and not hedral cells and supported by partly ossified tumor tissue. The periosteum is soon perforated the neoplasm then invading the muscle or a joint

Kolodas attributes the development of osteogenic sarcoma to an unknown stimulus which breaks the Trauma has frequently been growth restraint

suggested as such a stimulus

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Gesclickt G F and Gopeland M M Tumo s of the Glant G ll Group A Pathological Entity 1 cl S g 193 x 145

Geschickter and Copeland believe that on the has s of their relationship to the resorption of cartilaginous bone the former clinical entities bone cyst giant cell tumor of the long bones and skull epulis of the alveolar border and g ant cell tumors of the xanthoma group found in the tendon sheaths are pathologically related. The solitary bone cust a form of osteiti fibrosa is an arrested giant cell tumor The age curves of the hone cyst and the giant cell tumor show that as the healing power of the bone cells declines with the advance in the age of the patient bone cysts decrease and giant cell tumors increase in frequency. The pathological process involved in these tumors is associated with the formation of ne bone from cartilage. It is be lieved that the giant cell tumor preserves its em bryonic hone destroying functions and is funda mentally related to the proliferation of osteoclasts in bone newly formed from cartilage Most giant cell tumors of the skull have been traced to association with cartilaginous centers of ossification epulis is related to the process of resorption of the temporary bony structure of the deciduous teeth G: nt cell tumors of the tendon sheaths erroneously classed as vanthomata are in reality tumors of the sesamoid hones

Trauma is related to the bone cysts and the giant cell tumors not as an indefinite etiological factor but as an initial event causing disruption of the cortical blood supply which results in an invibal enterence of the cortical blood supply which results in an invibal and reactive compact bone in the corte. The age of the patient, the ste of the njury the rate and e tent of cartilaginous oss fication at the end of the bone and the nature of the blood supply in the affected reg on are predominant factors in the pathology of these tumors.

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- x A normal histogenic proliferation of giant cells which occurs only in calcified cartilage or the tem porary bone of the roots of deciduous teeth
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  2 Injury and necrosis of an area of cortical bone
  overlying an actively ossifying epiphyseal or meta
  physeal region
- 3 A response on the part of gunt cells and capillates in cancellous bone to the need for collat eral circulation
- 4 Disturbances in calcium and phosphorous metabolism inhibiting normal g owth and defensive reaction of cartical hone. LLI ABETH CRANSTON

Massart R Joint Malf rmati ns of Obstet 1
Origin (Les m lformato s tcl d gn
bstét cale) B ll t é S c d / g d
Pa 93 x 394

Attention is called to certain malformations of the shoulder an I hip due to obstetined training which are often believed to be congential. The author has found several fractures of the clavele in children which were mistaken for paralysis of the arm. Such injuries occur in deli ery accomplished under difficulties often in rural districts by praction is or midwice unaccustomed to man ging dystocia. The author reviews the cases of six p tients in the absoluter injury and one patter it with a hip injury due to obscure obstetincal trauma. All of the pate is tweer followed for ten years:

The snytres at the shoulder beh have been called sublivations are often accompanied by le soms of the hrachtal pletus crused by stretching Malformation may occur without paralysis a diparalysis without malformation. The minant sinjured shoulder is very tender to touch and manipulation and is often held immobile? Immard rotation with hir gis the epicondiel for ard causes a marked deltopectoral furror and leads to the dag oss of paralysis of the arm. In many such cases there is only? a separation of the epiphysis of the upper end of the humeress and the arm should be immobilized in external rotation. If the arm is left in malp sition of the spearated epiphys is may give on at an angle of odegrees with the arm in marked internal rotation.

Frimary Tay examinat on of the newborn usually fails to give information with regard to joint injuries on account of the easy penetratio of the epiphyseal cartilaginous area by the Tays but a series of roentigenograms made over a period of several years all eventually and in the diagnoss. When lesions of the shoulder and h p due to bo ter real trauma are unrecogni ed they interfere with the normal development of these joints.

KEL CC SP E M D

St Az t 1 Cl ondromatosis of the Joint Capsul
S t Gy t & Ob t 193 1 99

Chondromatosis of joint capsule vas first described in 90 by Reichel There are two theories as to the cause—the theo y accepted by Let hich ascribes the condition to tumor growth and it e theory accepted by Lotsch and Beckmann I arsson which ase thes in to chrome tritain in However the chology is still doubtful as the 1 we leas never been studied microscopically. Because of the exuberance of arith the formation of carthage in the capsule Kappis regards the cond tion as a mosplastic change. The authors states that there c

anæmic necrosis with a hæmorrhagic bordering zone formed by the anastomosing vessels Moreover the focus would occur on only one side of the semilunar bone The author's investigations have shown that the necrosis is situated centrally and more in the proximal portion. This typical location and the absence of signs of injury in the ligaments disprove the theory of ligament rupture Moreover no sign of vascular disturbances such as thrombosis or embolism were found. The author's studies of the vascular supply of the semilunar bone also indicate that the necrosis is not due to ligament tears or embolism The semilunar bone is nourished sim ilarly from both periosteal sides by several vessels Otherwise it is completely cut off from the circula tion by its four joint surfaces as well as by the layer of periosteum over a layer of fibrocartilage which does not permit the passage of large blood vessels Therefore the inner side of the fibrocartilaginous covering of the bone is also supplied by recurrent branches from the interior of the semilunar bone

From these observations the author concludes that the cause of the necrosis is always a compression fracture He has found fractures in all cases That these fractures were primary was proved by the readily recognizable hæmorrhages which were al ways limited to the site of the fracture The crummy necrosis or Athausen's bone meal is the remains of hæmorrhage The lines of fracture have a typical direction Apparently the compression of the semi lunar bone between the radius and the capitate bone results in a compression fracture between the proximal and distal joint surfaces and at the same time a tearing fracture between the lateral surfaces The cartilaginous covering being not compressible gives way at the sides The bone nucleus of the semilunar bone is squeezed out of its covering of cartilage The extent of the fracture varies accord ing to the force with which the semilunar bone is compressed between the capitate bone and the radius. When the trauma is slight, there is an iso lated fracture below the volar joint surface More severe trauma causes a fracture below the distal joint cartilage and separation of the semilunar bone into a dorsal and a volar fragment with preservation of the cartilage or its partial or complete rupture Extensive necrosis of the entire semilunar bone is due to tearing of the afferent vessels by the line of fracture under the periosteum. In less severe cases a necrotic area develops in indirect contiguity to the fracture and a region extending more deeply This marginal necrosis is due apparently to an increase in the internal pressure from congestion and the fracture hamatoma

Therefore necrosis of the semilunar bone is caused by a primary fracture and the extent of the necrosis is dependent on the form of the fracture lines. Subsequently a giant cell and spindle cell granulation tissue grows from both periosteum covered sides into the necrotic bone and absorbs it. Only late is there a new bone formation in this connective tissue. For a considerable period their remains a

broad zone of connective tissue which is manifested roentgenologically as a cystic rarefaction on the dorsal and volar aspects. Cysts arising from the remains of fractures and hematomata and from dilated vessels are occasionally demonstrated but not roentgenographically. In older cases four zones may be distinguished (1) the necrotic central part (2) the reparative zone (3) external to the reparative zone an area of old bone with an inner area of new bone formation and (4) external to this a layer of new bone formation and (4) external to this a layer of new bone.

During the course of the reparative processes there is a gradual collapse of the semilunar bone This is due to the loss of firmness in the necrotic bone trabeculæ and in part to the slight resistance to pressure of the newly formed connective tissue parts The collapse of the bone is favored by move ments of the hand which cause repeated congestion The necrotic area shows little tendency to beal It persists over a period of years. This is explained by the great extent of the necrosis and the exposed position of the bone. The author's study of the lines of force in the metacarpus shows that in a fall the semilunar bone is affected most being caught be tween the capitate and the radius Similar change occur in the navicular bone although more rarely since the force is concentrated on the semilunar The arthritis deformans associated with necrosis of the semilunar bone occurs only in older cases and is secondary to nutritional disturbances

ERICH HEMPEL (Z)

Wagner L C Intra Articular Endothelial Turnors
Arising from the Synovial Membrane A 1
Surg 1930 xcn 4 1

Wagner reports two intra articular endothelial tumors artising from the synovial membrane one developing in the anterior space of the knee joint of a man thirty five years old and the other in the anterior space of the ankle joint of a girl fifteen years old. On exposure the tumor adapts itself to the shape of the joint space it occupies

The neoplasm is definitely capsular its only at tachment being to the synovial membrane. It has a yellowish brown tinge and is very cellular and resistant to the touch. Histological examination shows elongated hlunt cells sometimes fusiform lying close together. The nuclei are round or oval. In certain zones the fibrous ussue exceeds the cellular elements.

The clinical diagnosis is difficult as there is no definite disability. Roentgenograms show a definite circumscribed shadow in the soft tissue structures. Amputation is usually necessary to effect a cure. Rudout S. Reich M.D.

Camurati M Congenital Pseudarthrosis of the Tibla (Le pseudoartrosi congenite della t bia) Chr d rga di mon m nio 1930 xv 1

The author reviews the literature on congenital pseudarthrosis of the tibia and reports 27 cases from the Rizzoli Orthopedic Institute

The condition is a localized os eous dystrophy occurring in a limb which is relatively well developed in its important parts but otherwise shows more or less atrophy. It may or may not be associated a ith a similar lesion of the fibula.

Only 145 cases have been recorded Fifty seven and six tenths per cent of the patients were males In 955 per cent the condition was unsisteril In the author's opinion it is due to arrest of development and heredity plays only a minor rolle in its

pathogenesis

The most constant and sometimes the only change is a de intun of the tibit from its normal avis This may form an acute or obtive engle with a superior or inferior apec. The converty ares but is usually anterior. Atrophy 1 constantly present in the lower fragment but may occur also in the upper fragment. The leg may be shortened as much upper fragment. The leg may be shortened as much upper gragment. The leg may be shortened as much upper gragment. Sometimes there is a scar in the sign at the aper of the curvature. The foot is at first in normal position but may assume the equinus or tallipes position secondarily to compensate for the curvature of the leg. I assombtor of sturbances are tare.

Three clin cal types of pseudarthrous of the tibus as be disriguished—the latent the fired and the mobile. In the latent type there is no interruption in the bony skeleton. The curvature is usually anterior and inward. Changes are present at the junction of it le lower and middle thirds of the tibus and often in the foul a. The disphysissho satrophy and shortening. Frequently there is an annular circular thickening at the point of maximum curvature the mediulary canal being partnilly or entirely

obliterated

In the fi. ed or closed pseudarthros s dense con nective tissue separates the broken ends of the tibia but the fibula is intact. The direction of the curva ture is the same as in the latent type

In mobile pseudarthrosis both bones are fractured the curvature usually forms an acute anglethe end of the fragments hich are pointed or hook shaped may overlap and atrophy is usually resent.

In the fi ed type walking is possible but in the loose type it is impossible unless a spli t is used

Three types of the condition are c sdent Iso on contigen examintion (1) a type with simple curva ture in which there is abnormal diffus on f the cortical trabeculations due to the file son and torsion of the tibia (2) pseudarthrosis without great loss of bone in which the cortical thickening is limited to the superior tibial lragment and the bone surrounding the fracture and (3) pseudarthrosis with great loss of bone in which cortical to Leaung is limited to the proximal fracture surface or may be completely abset to rithere may be cortical atrophy

Macroscopically 2 main types are di tinguished (1) that it simple curvature ithout pseudarthro sis and (2) that with pseudarthros s. The first type is characterized by deviation of the axis atrophy dominution in the length and diameter of the third and fibular diaphyses and absence of fractures and callus. In the second type there is marked atrophy in the distill fragment the fractured end of the upper fragment may be rounded pointed or concave or form a glenoid eavily receiving the lower fragment co-erlapping is not in common the osseous tissue and ouning the pseudarthros is frable especially in the distal fragment the fragments are usually united by fibrous or fibrocartilaginous tissue the off its-sues sho atrophy without degenerative changes of the muscles which insert into the tibin and fibula and the sural triceps is retracted and sometimes hypertrophic.

The author reports the hi tological findings in tissue removed from the region of the pseudarthrosis in i case Protimally there wis normal boxe. Toward the area of the pseudarthrosis the bony lamellae became denser and rich in pknotic nucle assuming an o tend appearance. No osteoblasts.

ene present. The bone marroy showed an acresses in the nuclea and fibrous changes. The pendar thross itself consisted of dense connective itself between the control of dense connective itself poorly secularized. In places by trabecule traversed this connective itself poorly secularized. In places by trabecule traversed this connective itsue from the protunal to the dit tal fragment. The periosteum passed over the periphery normally. The author concludes that these changes do not constitute a definite pathological entity.

It best the prognosis should be guarded The condition can be cured usually with difficulty but

there is no assurance that it will not recu. Is the pseudorthrost tends to get worse early treatment is ad asable. Non operative measures include immobilization the local 1 jection of irri tants and the induction of hyperamis. Surgery offe s the best chance for success but sho id not be attempted before the jatient is six vears old. The operative measures incl de osteotomy in the latent cases and resection of the pseudorthros i follo a by suture of the bony fragments or home transplant atton. The author describes several types of a metansplant into The potential properative immobilization must be continued for years after cline! and roung nological evidence of apparent cure is been roung not some continued of apparent cure is been

Of 97 surgically treated cases re ici ed by the nutbor a cure was obtained in 3 improvement n if and no change in 51. Twenty one of the 30 cures followed bone transplaint tion.

A Louis Ro 1 M D

Pou et F Tuberculosis I tle C leaneum in Children (L t b c l d cal cum h I t t) R d th p 930 1 3

To berculoses of the calcaneum may develop nearly childrend then the cetter of oss heatton of the bone is active of later when the poste for epp hy eal center becomes active. The author has treated twenty four children with this cond tion. Eight were under six years of age. Of the steen who were

older the majority were between nine and eleven years. In most of the cases reported by Chicandard the subastrugaloid joint was affected but this was not true in the author's cases. In some of Pouzet's cases there was slight limitation of movement

The external surface of the calcaneum was exposed by an Ollier L shaped incision and a thorough curet tage performed except in one old case that of a child fifteen years of age in which a subperiosteal resection was performed. The curettage left only a shell of bone Pouzet believes that such a thorough curettage is better than a limited curettage as the latter may be followed by recurrence necessitating further operation. The bone is reconstructed very readily in the child when the cartilage shell remains intact. In eight of Pouzet's cases there were cir cumscribed caseous foci with a zone of peripheral condensation. In sixteen the lesions were more Pouzet attributes the predominance of diffuse lesions to the fact that his nationts were operated upon early Chicandard says that the con densing osteitis surrounding the caseous lesions is a cicatrization which begins from eighteen to twenty four months after the beginning of the disease but the author has seen it much earlier

In three of Pouzet's cases death resulted from severe general tuberculosis. In two cases the lessons progressed and necessitated tarsectomy and the patient died later of cachevin. In three cases the curettree was not extensive enough and was followed by recurrence. Sixteen of the patients recovered with absolutely normal or very good function and without talipes cavus or am of the other anatomical abnormalities mentioned by Chicandard.

AUDREY G MORGAN M D

# SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Dorrance G M Osteoperiosteal Bone Grafts

Dottance reports a case in which an osteoperiosteal graft from the tibia was used to bridge the tibia and femur in extra articular arthrodesis of the knee The usual arthrodesis was contra indicated because the leg was alread; shortened and there was dringer of lighting up an old arthritis. The result was good

Also reported are experiments on dogs in which the lower jaw was bridged by osteoperiosteal grafts

Dorrance emphasizes that a good supply of bone must be included with the periosteum in these operations and that as much care must be taken in preparing the bed for the graft family in place as in the use of the full thickness graft. Osteoperiosteal grafts require a longer time to become solid than full thickness grafts.

In the discussion of this report Wagover said that failures are sometimes due to areas in the graft where bone chips are not adherent to the periosteum

IV1 reported that for the bridging of small defects in the jaw he prefers the osteoperiosteal graft but

for the correction of large defects he uses the full thickness graft Chester C Guy M D

Hench P S Henderson M S Rowntree L G and Adson A W The Treatment of Chronic Infectious Arthritis by Sympathetic Gan glionectomy and Trunk Resection J Lab & Cl n Ved 1030 x 1247

Aside from removal of foci of infection the major and relatively more successful forms of treatment for chrome infectious arthritis are all directed toward increasing the circulation of the joint in creasing the temperature and thus the metabolism of the joint and increasing the oxidation of articular tissue.

The treatment of certain cases of chronic arthritis by resection of sympathetic gangha and trunks was instituted by Rowntree and Adson in the hope that it would produce an optimal degree of articular circulation in certain joints at least

Any superiority in results that may come from resection of sympathetic ganglia and trunks in cer tain well selected crises of chronic infectious arthritus may be due solely to the fact that by this procedure the desired favorable state is maintained over a protracted period possibly permanently instead of intermittently for only a few minutes or hours at a true.

The general principle of resection of sympathetic ganglia and trunks is to cut out and remove the sympathetic ganglia and their rami that contain vasoconstructor fibers to the vessels of the extremittes thereby increasing the circulation and tem perature of the joints of the extremittes and probably increasing tissue ovidation within them

Operation is indicated probably in only a small perentage of cases of chronic infectious arthritis Satisfactory results have been obtained frequently in cases in which there have been changes in the soft tissues or the joints of the hands and feet. In some cases no benefit has been obtained

At the Mayo Clinic the selection of cases for the operation described is based at the present time on the following six major requirements

r The arthritis should be chiefly periarticular or synovial (capsular) with little if any bony alteration (destruction or hypertrophy) except atrophy

2 The patient preferably should demonstrate some of the alterations in vasomotor tomus shown objectively by cold clammy sweating hands and feet and a reduction in the blood pressure (approximately below from 110 to 115 systohe) and subjectively by intermittent numbress and tingling

3 Vasomotor alterations must be capable of correction or over correction by release of the control of the sympathetic apparatus. The possibility of such correction can be demonstrated by determining the vasomotor index that is by obtaining a deimitely bigher cutaneous temperature than mouth temperature after typhod vaccine has been given intrivienously. The temperature of the joints of the extremities may or may not be identical with that

INTERNATIONAL ABSTRACT OF SURGERY

of the skin over them but the temperature of the latter serves as an index of elevation of temperature from vasomotor dilatation 4 The patient should preferably be less than

thirty five years of age and not more than forty five 5 The arthritis should be progressive and the

main disability should be confined to the extremities particularly the hands and feet. If the arthritis is not progressive continuation of the therapeutie program already established may accomplish satis factory results. If it does not and if the degree of disability is great operation may be permissible in

carefully chosen cases

6 A reasonable period probably at least from six to t elve months of intensive not haphazard treat ment by the more established less radical riocedures. should be allo ed before resection of sympathetic ganglia and trunks should be considered. However rapid progress of the condition or the stress of economic circumstances may necessitate considera

tion of earlier surgical measures

The authors conclude that resect on of sympa thetic ganglia and trunks is not applie ble to all forms of arthritis or of value in all stages and degrees of chronic infectious arthritis. At the present time it is their impression that it is of definite benefit in cert in carefully selected cases when all other rea sonable measures have failed. Used properly and not delayed too long it may by maintaining an in crease in the temperature circulation and perh ps the metabolism of the more distal joints of the extremities induce a stage of compensation in th arthritic disability that cannot be produced other

the final opinion regarding the proper selec tion of eases for the operation and the value of the procedure in pr perly selected cases cannot yet be

expressed

The auth r reports thirty eight cases of tend n transplantat on dating back t enty four years In a case of complete paralysis of the triceps muscle the muscle was replaced by a 30 cm silk tendon ex tending fro n the latiss mus do si an I the teres major to the olecranon I 1 a case of club foot consider ble improvement vas obtained from the attachment of silk tendons to the tibialis anterior and gust e nemius In a case of pa alytic club foot p ralysis of the tibialis anter or and posterior tle pero eus longus was attached to the inner surface of the calcaneus and silk tendons vere attached from the extensor d gitorum longus to the navicular bone This proce ture is suggested also for flat foot of the usual severity

For talipes cale neus transplantation of the peronei tibialis poster or fle or digitorum and flevor hall cas to the tendon of Achilles is indicated Quadriceps pa esis and quad iceps par lysis must be carefully differentiated In parests the attachment

of a silk tendon to the sartorius and transplantation of a muscle (the biceps) may render extension possible In complete paralysis sufficient material must be used for substitution. The author reports t o cases one of which was operated upo twelve years ago and the other to enty four years ago Seve e flail knees may be stabilized by silk lateral bands In one of the cases reviewed an internal silk ba d the size of a finger gave complete function

A diff cult procedure is the substitut on of the h p muscles A substitute for the flevor muscles may be ol tained by freeing the upper end from the vastus externus prolonging it i ith a silk tendon and sutu ing it to the anterior il ac spi e Up to 1921 n substitute had been devised for the p ralvzed gluteus maximus Today a substitute is for ned by extending a br ided silk tendon from the sacro spinalis to the trochanter The gluteus med us and minimus may be replaced by a plastic operation in the ch the latissimus dorsi from the other s de is brought diagonally under the skin of the spinal column to the trochanter major. Complete a bati tution for the paralyzed gluter is impossible but the Imping can be decreased and walking made more sure

Ma art R Tuberculo is of the Shoulder ad Arthodesi (i tb i dipul ti to

In tuberculosis of the shoulder resection by no means always gives the m bility it i supposed to give inkylosis of the shoulder is not a very ser us inconvenience as it is admirably compens ted by the steat legree of mob lity of the scapula There is little limitat in of movement except in elevation

and outwa d rotation of the a m The author describes his technique for arthrodes of the shoulder and shows the steps of the operation by illustrations He uses Neudoriers epaulette ine sion above the joint a transacromioclas eular incision high is begun at the posterior border of the scap la v here the plane of the gleno d cavity if prolonged sould meet the acrom n and is con t nued for and to the corncold process. It involves incisi n of the acromion process and the external end of the clavicle Son e surgeons bject to it because they think sect on of the acrom on proces and the clavicle is so iou but the author finds that it simple fies closure of the joint The incis on advocated is of advantage also because it is not followed by the pozing of blood and erum that occurs after an a cisio i made beneath the joint there are no v s els to ligate and the bo is homotrhage is controll d by tampon ng The capsule is opened if it has not I ready been de t oved by the tub reulosis and the joint is opened. The disea ed tissue and fungo ities are rem ed and as m ch as necessary of the bo e of the gleno d cavity and humerus is exc sed This can be accompl hed ithout distu bing the misch inse tions The cavities left by the e ci i n a e filled with osteoperio teal gr fts v hich f rm br dge between the t o bones The grafts re taken from

the tibia and used at once The capsule is then closed the muscle layers are sutured and the acromion process and clavicle are sutured in place

While the patient is still under the anæsthetic the shoulder is immobilized in abduction of 30 de grees and internal rotation of 60 degrees. The immobilization is maintained for two months during which period the patient is given general and recalcifying treatment. At the end of that time the joint is solid. A roentgenogram is then taken. Thereafter the forearm is allowed to be free but a small plaster spica of the shoulder remains in place for three months.

Two cases are reported with roentgenograms

AUDREY G MORGAN M D

Dandy W. E. An Operation for the Treatment of Spasmodic Torticollis 1rch Surg 1930 vs

In the treatment of spasmodic torticollis Acen in 1891 divided the posterior divisions of the first second and third cervical nerves on one side at their points of emergence from the vertebrar. Fin ney and Hughson 1925 were the first to report a biliteral operation for the condition. The operation they described was a bilateral Acen s operation plus division of both spinal accessory nerves. Its failure to effect a cure in every case was probably due to individual variations in the extent of involvement of the cervical muscles.

The cause and pathogenesis of spasmodic torticollis are unknown and none of the numerous theoretical explanations of the condition is satisfactory. There is no greater evidence of a psychogenic background than in any other condition

treated surgically

In the Finney Hughson operation the anterior divisions of the cervical nerves are inaccessible and only the posterior divisions are attacked. Accordingly there is incomplete interference with the nerve supply of the rectus capitis laterals rectus capitis and levator angul scapitis steranomastoid trapezuis and levator angul scapita muscles. Dandy be lieves that the principal difference between his operation and that of Finney and Hughson lies in the preservation by their method of function in the more powerful muscles namely the sternomastoid trapezuis and levator anguli scapite.

In Dandy s operation the sensory and motor roots of the first second and third cervical nerves are resected after removal of the lamina of the upper three vertebra. Until recently the spinal accessory nerves were divided alongside the medulla and the higher medullary branches were divided independently. Recently however this part of the operation has been abandoned because the most anterior filaments are not always accessible. The spinal accessory nerves are now divided intraspinally at the level of the foramen magnium only to obtain better exposure of the first cervical motor branch. When the operation is concluded the patient is furned on his back, the spinal accessory nerves are

exposed and divided through two small incisions in the neck and the proximal ends of the nerves are reversed and sutured in this position to prevent regeneration

Since this article was submitted for publication Dandy has sectioned the upper three motor cervical nerves on both sides without sacrificing any sensory fibers. He experienced no difficulty in avoiding the

sensory roots

The limits of intraspinal section are reached by
the operation described as the fourth cervical nerves
give rise to the phreme nerves and the rimaning
cervical nerves give rise to the brachal plevus. In
cases with some degree of contraction after the
operation it is possible to remove the nerve supply

of the small group of offending muscles by a minor peripheral operation. Fight cases are reported. Five of the patients were practically cured and two were greatly benefited. One died from pneumonia developing ten days after the operation. There was no operative

mortality.

In only one instance was there entire freedom from minor jerking or drawing of the head imme diately after the operation. However, the move ments were mild. The patient should be informed before the treatment that the cure will not be instantaneous. After the operation he should spend from three to six months in rest and graduated exercises to strengthen the muscles of the neck.

In two of the author's cases there was dysphagia of minor degree Deglutition was always possible but required increa ed effort. The dysphagia was probably the result of the loss of the nerve supply to a mussle of deglutition. Its occurrence in two cases and absence in five is explained by variations in the nerve supply of the infrahyoid groups of muscles.

E. S. Platt. M. D.

Mathieu P Repair Surgery of the Hip (Chrurgic r pa atrice de la hanche) B vell s med 1930 x 975 1004

By means of operation it is possible to (1) restore the neck of the femur following its fracture (2) stabilize the head of the femur in congenital luxation (3) restore mobility to the ankylosed hip (arthroplasty) (4) reconstruct a stable mobile and painless joint in cases of destructive lesions of the hip (reconstructive operations) and (5) ankylose a painful or unstable hip (arthrodess).

I sendarthroses of the neck of the femur may be treated by osteosynthesis with the use of pegs of living hone or screws of dead bone with or without arthrotomy or in cases of extensive osseous destruction of the neck and head by a reconstructive

operation

In unmanageable congenital subluxations and lux ations of the bip stabilization by the osteoplastic formation of a buttress for the bead after its reduction into the acetabulum gives remarkably good results. In irreducible anterior luxations the formation of a buttress often assures stability and freedom from

pain. In cases of irreducible posterior luxation, the stabilizing action of a buttress is less constant.

And places of the him is a marriable to arthur later.

Ankylosis of the hip is amenable to arthroplasty In cases of bilateral ankylosis this operation is essential on one side at least but in cases of unilateral ankylosis it is optional

Paioful hip acquired instability of the hip and pseudoluvations are amenable to arthrodesis or a reconstructive operation Futra articular arthrod ess seems to be the treatment of choice for certain

sequelæ of covalgia on hich the author performed extra articular arthrodesis of the hip the roentgenograms showed complete osseous ankylosis in eight. In four the ankylosis was less certainly osseous as there was some flevibility of the hip. In there cases the operation was too recent for judgment of the end result but the immed the result was very good. In one case the osseous bridge seemed

to be fractured or partially absorbed

The author reports the case of a man trents five years of age who entered the hospital July 13 1930 because of covalgm of the right sude. The Symptoms had begun several months previously but did not become definite until March 1930. They consisted of fatigue on walking lameness and pain which prevented the patient from dong his work as a day 1 borer. After two and a half months h s general condition as poor his tempe ature ranged from 37 to 38 s degrees C and the pains in the hip were continuous.

The lo er limb was in adduction and external totation the thigh was in a fight flevion on the pelvis and there as marked lumbar lord sis All attempts at mobil atton of the joint we e futile because of it fliess of the joint and c attracture of the muscles. Physical c am nati n re caled muscula atrophy of the thigh glandular putiless in Scarpas triangle and pan on pressure on the neck of the femur and the great trochanter. The e vas

abscess The roentgenographic find ngs ere

A throdesis the technique of v h ch is described in detail was done Septembe 8 and the limb then f xed with a large plaster-of Pans sp ca in slight abduction and external rotation

In the latter part of October the tempe ature became permane tly normal and in the latter part of December the general cond tion was excellent

The cast was removed at the end of January Walk g was then resumed gradually At the time this report was made the hip as completely an kylosed the per articular it sues were dry and en turely free from ordema pressure on the neck of the femur and percussion of the great I cohanter ver negative and alking was easy paniess and vith out fatigue Good results were apparent also in the roentigeograms

SORRY who read Vergoz sepo t to the Society said that to reach the attitudation of the hip his uses the curved infratrochanteric incision Olher's small box incision. He sees the great trochanter at its bas. If its it with the muscles inse ted therein until he sees above the articular capsule a por tion of the inhac crest and then files the latter for ad ptat on of the upper end of the graft.

In operating for covalgia duri g the active stage he makes an incis on parallel with the fibers of the gluteus maximus extending from the il ac border to the great trochanter. He then makes a ve teal opening in the trochanter where the lower e d of the graft 1 to be inserted separates the muscl f bers above the joint so as to expose several squa e cent meters of the iliac c est cuts a small flap and beneath this flap introduces the upper end of the graft. He called attention to the fact that Vergoz took an osteoperiosteal g aft from the tib had to be fractured to be put in position but consoli dation was rapid as the roentgenogram showed Sor rel prefers to begin with the il otrochanteric stage and measure carefully the length of the g aft nec s sarv He r mo es his g ft with the electric saw The graft is of no alue for immobilization u tl after se eral months. Until that time has lansed immob lization must be obtained by apparatus

In the dicuss on which folloe of CCNAO stated to the break g of an osteoperiosteal g aft II not ha e any effect of the final result. The g if does not become fused or play a role in fi at n until after f om ten to t ele months. Fr m the sixth to the eighth month it is particularly fragile and g eat ca e is neces ary to pre ent I actue. C mplete tra sform tion of the graft s much m reapid when a vide g aft can be sed unste d of a

massive graft

MATRIEU stated that h di apprives of bone gristis taken fir m the tibia because they fite fracture become part ally bsorbed and gie rise to pseudarthrose. He prefe s to use a tochido ous bony mate ial. (bac llap and fragment of the tochaster) to e tabli h extra a ticul ratthrodes.

Sorrer, said the tim covalgas of  $\log$  at nd ng he usually per fim san immed ate 1 its articul r and e tra articul r and e tra articul r articular and e prefers the Ve goz techn que as it 1 less apt to open an abscess or masses of tuberculous mn I an accident that V uld be prejudicial to the future of the g at V.

The author reviewed the literature on co a va a a d studied the clinical records of 77 cases treated at the Mu ich Clinic. The oldest on on the record vas treated twenty three years ago and the mot recent case as mouths ago.

Cova wara is of 3 types—the rach tic the c n genital and the adolescent Traumat c and st t c cova wara belong to the adolescent type

In the treatment extension is used to correct the shape of the rachitic femoral neck. After an effect on the neck of the femut has heen obtained the rickets itself should be treated. In traumatic loosening of the epiphyses with cova vara extension applied while the trauma is still fresh may result in reposition of the femoral head. In the cases of small children with congenital cova vara pensistent extension may influence the growth of the epiphyseal line. Extension bas proved of value also in cases with contraction of the soft parts from trauma. The method by which extension is obtained is very important Most satisfactory is longitudinal extension with rotation and and uction obtained with Unna's paste and plaster of Paris.

Treatment by reduction with or without adductor tenotomy has been the subject of considerable con troversy In old cases reduction leads to loosening of the epiphyses which hy many is regarded as un favorable because of the danger of pseudarthrosis Bardenheuer says that when this method is used the head and neck must be maintained in correct position hy abduction of 150 degrees and internal rotation of 30 degrees In the interpretation of the roentgenograms made hefore and after operation great care is necessary Stereoscopic views decrease the danger of error A successful result depends on the state of nutrition of the femoral neck. The author does not helieve that complete necrosis de velops as a rule (Arhausen) When reduction is successful extension must be maintained by a suit able orthopedic apparatus for at least eighteen months after removal of the cast

The nuthor is very cautious in performing tenot omy of the adductors as the pull of these muscles may have a favorable influence on the position of the head of the femur While for a number of years Lexer has pulled down the trochanter major with its muscle insertions Lange has attached artificial silk tendons to the vastus lateralis loosened from its origin above on the femur and to the crest of the

ılıum

The most common form of treatment for coxa vara is osteotomy. There are 22 types of this opera tion The most logical is chiselling through at the level of the deformity (Whitman) This method bas found relatively few advocates because of the fear of ankylosis or pseudarthrosis of the hip joint Pertrochanteric osteotomy corrects trochanteric cova vara with good restoration of form. The subtrochanteric osteotomies in general correct only the angle of the femoral neck. The action of the iliopsoas may evert a dangerous pull on the fragments Hass has obtained good results from the hifurcation op eration and Schanz from the wedge shaped osteot omy with resection of the head After the osteotomy a plaster of Paris extension bandage should be applied and after an interval the Hessing apparatus should be employed until the fragments are able to hear weight

The bone operations of Mikulicz Bircher and kocher are seldom performed today For difficult cases operative mohilization is still considered (Lever) Lever performed several suc cessful plastic operations. Pitzen surgically mohilized 3 hips in young persons without interposing tissue and without entirely withdrawing the head but in all 3 cases the ankylosis recurred. In blateral coxa vara one hip becomes affected before the other As the tendency toward ankylosis is very great all patients treated for the unilateral condition should be carefully followed up and frequently re examined

In individual cases it is difficult to determine the prognosis definitely. A comparison of treated and untreated cases indicates that the necessity for treatment is determined by the cause type and

severity of the affection

In the discussion of this report Riedel (Frank furt a M) said that in wedge shaped osteotomy of the linea intertrochanterica he uses the Schanz disk with the check plate

MOMMSEN (Berlin) stated that he performs cleft and peg osteotomy so that there is a hinge motion at the site of the osteotomy which further corrects

the coxa vnra

BOSHER (Vienna) reported that he combines the Schanz nail with nail extension at the third tuheros ity. He recommends the use of the nail hecause it controls the angle with certainty. In a case of pseudarthrosis of the femoral neck in which he performed a suhtrochanteric osteotomy a cure resulted in a few months.

MAU (kiel) stated that he is not particularly in favor of internal rotation. For difficult cases he ad vocates reduction under anæsthesia. For other case he prefers subtrochanteric osteotomy in the form

of a hifurcation

Guibal A nnd Marchand L Tiblotarsal Arthro resis Indications Techniques Results (Lar throrise tiblo tarsienne Indications techniques resultats) Ren d rihop 1930 x xvii 97

ENCEL (Z)

The operation arthroresis (limitation of the joint) was first performed by Toupet in 1920. It was named by Putti in 1922. The purpose of the procedure is to preserve the function of a tibiotarsal articulation which is poorly controlled by its muscles. The displacements of the foot on the leg are limited by the tibioperoneal support afforded by a stable and rigid poro placed upon the tarsus.

The operation is indicated in club foot and in flail lower himb due to paralysis. It is superior to other attempts at tibiotarsal restoration such as arthrodesis and tendon and muscle operations be cause the desired attitude is obtained with stability and exactitude the movements of the foot on the leg are preserved in the most useful sector of their excursion and the muscles are placed in the best condition to evercise the activity of which they are still carable

Walking requires a correct and stable foot Thiotarsal arthrodesis corrects the attitude but does so at the expense of the necessary mobility of the instep Tenodesis which respects the mobility of the instep does not prevent abnormal move ments sufficiently. Arthrore is solidly limits abnor mal movements of the tibiotarisal joint vithout interfering with normal movements it preserves the active if you remained in the loot on the leg hereas arthrodesis (endon transplantation ten-

oplasty and tenodesis do not In total or subtotal

paralysis of the lower I mb arthrodesis fails to give the nece sari tibiotarsal play a hereas arthrore is solidly. I mus the flex on of the foot without interfering with extension. The material usually employed for the prop has been an autogenous osteoperiosteal graft talent from the autrem internal surface of the tibus. The

been an autogenous osteoperiosteal graft taken from the antero internal su face of the tubia. The authors use t in grafts taken from the tubia on the normal side. The prop usually rests on the astragalus or the calcaneum rarely on the whole tarsus. It may be buried its entire length in the host bone or

merels placed upon the latter Del Torto s technique for e ternal and internal arthrores s is described in detail Axial arthroreses are the most important. Lutti's technique for anterior arthroresis and the techniques of Founct (192) Campbell (923) \ov Josserand (1925) and Camera (924 1926) for posterior arthroresis a e de cribed. The authors used a technique similar to that of Camera but they lengthened the tendon of Achilles obtained the transplant from the t bia of the sound side out the transplant almost double the necessary length made twin grafts (one internal the other external) to supp rt part of the tibial pres su e fa hioned grafts ith a cone shaped shalt holl sed out the beds for the grafts in such a av that the holes became narro er with depth and u ed a s nele incision

The authors report the ease of a girl whose right lo e limb was partially flail The operative ndient ons ere to reduce equinus hile leaving the t biotarsal suff ient play for the rolling of the foot alking to correct a tendency to ard valg s and to strengthen the plantar arch The Camera type of operation was performed month later there as perfect adaptation of the tep the exten ors anterio tibal and pe ones showed movement the e as tib tarsal play between 67 and 87 degrees or a mobility of 20 degrees the patient had a distinct sensation of stopping of the foot near the right angle and there Twenty months was no 1 con e ence or pain after the operation the results rema ned excellent

Taking months as a basis for judgment of the end results of the darsal arthro es s it can be said that the g aft live and adapts itself to its role as obsice to by hipe t ophying. The hypertrophy does not inconvenience the preser ed movements. The bir either inco porates the peg entirely or becomes continuous with it without a line of demarcation. The bone by hich the peg is supported may undergo slight atroply without causing functional d turbances.

From a study of the funct onal results of external and internal tibiotarsal arthrore is after t o jea s

Torto concluded that external the otarsal arthrores is all efficiently and durably limit the promotion of valgus due to abnormal articular livity [t] the net pain distribution articular livity [t] the supmention of varus due to the same cond to ne From statistics it may be concluded that antenor t biotarsal arthrosess will be efficacious in limits [g] to not of the foot to a degree sufficient to give the foot an attitude which determines momentary nightly of the 1 mb 10 terror tibiotarsal arthrose is vill effectively 1 mit the extension of a pes equiums

The article 1 supplemented by a bibl ography

#### FRACTURES AND DISLOCATIONS

Rad ci II E Scallity of Bone and It Relation to Bon Rep ir S g G 60 0b t 93 1 4

Bast Sull an and Wieder have concluded that the cambium or o teogenic layer of the periosteum the o teogenic cells In ng the ha ersi n canal and the per osteum are all acts e 1 the formation of the callu reuniting old bone at the line of f acture. The consolidat on of the fragments further strength ened by extensi n of the new bone f med in the cut into the exca ated space of the old bone Reduction of the e ternal callus is accomply hed by osteoclass In the cases of pers ns in the pr me of I fe the time equired for the healing of fractures of the upper extremit es is approximately six weeks and the time coul ed to the healing of fr ctures of the lo er e trem ties is longer. In the elderly repair usually takes thice as long and occas onally non union results as in fracture of the neck of the femur

In the higher mammais compact bone undergoes semile changes The e change hich are I mited prim rily to the haversian system and secondarily to the 1 terstit al lamellæ are as follo s d socation of the o game and morganic constit uents of the h erst n l mellæ (2) appearance (deposition?) of granules in the lamelle (3) e ten s on I the depo ts to the p ripher, of the system (4) absorption and disappearance of the lamella I om with n out ard (5) idening of the canal and thunn ng of the ystem (6) d sappearance of the laversian systems and the fo mat on of 1 reg ular space (7) a decrease in the diameter (?) a d thickness of the bon) all and n the seight and strength of the bone and (8) an increased medullary

The autho s studes were male on the femurand tha I in the femur th normal canal measure from 3 to 4 m crons in divineter whereas affected canals measure f om 6 ob 10 sig microns to 17 by 3 o microns 1s the change progres es the 10d light percent of the eye. The bine shell becomes thinner and quite po ou as it is ridd! if by the enla gel canal in the tend through at

least one half of its remaining thickness. In the tibia the normal canals measure from 30 to 40 microns in diameter whereas affected canals in the vicinity of the marrow cavity measure from 110 by 170 microns to 170 by 210 microns.

Fragility of old bone is generally believed to be due to loss of organic material but in old age the content of organic material in the bones is 42 per cent where in middle life it ranges from 20 to 40.

content of organic material in the bones is 42 per cent whereas in middle life it ranges from 30 to 40 per cent. Therefore the fragility of old bone is probably due to thinning of the bony shell

RUPOLPH S REICH M D

Poelchen The Treatment of Fractures of the Up per Extremity by Active Extension without Fixation (Die Behandlung der Fracturen der oberen Extremitat ohne Fixation nur mit aktivet Exten sionsbewegung) Wonatsschr f Unfallheilt 1930 XYVII 1933

Besides his own orthopedic apparatus which al lows complete utilization of nerve stimuli and thereby hastens the healing of fractures of the lower extremity the author recommends the use of Emge s treatment of fractures of the upper extremity Emge obtains complete relaxation of the muscles for reduction by intermittent instead of constant trac tion The patient pulls for from one to two minutes two or three times daily on a horizontal bar which is attached to the floor. In addition the physician makes passive movements at first every two or three days and later every three to five days By this method shortening excessive new bone forma tion the interposition of soft tissues flail joints pseudarthroses ankylosis and atrophy are pre vented

Poclehen rejects the use of splints in order to leave the innervation unhampered and avoids every external cause of movement. His adult patients are subjected to continuous traction of at least 2 kgm. The weight is held with or between the fingers and is prevented from falling by a bandage attached to the wrist. The patient is instructed to execute swinging movements while bying on a table so that the shoulder blade is prevented from participating in the movement. Poelchen cites numerous cases in which successful results were obtained by this treatment. After several days he permits the patient to work, with instruments or tools which is much better than the use of any other mechanical apparatus. The period of healing is greatly shortened.

Single fractures of the shoulder blade or clavicle do not need any special care. Fractures of the forcarm are more difficult. For the latter Poelchen has often been compelled to resort to operation. He considers as particularly unfavorable fractures of the metacarpal bones particularly those of the second metacarpal. In cases of fracture of the fingers extension by mechanical devices should be aban doned. The working capacity of the workers who were treated by fixation is compared with the working capacity of those treated by extension and those who received no treatment. The results indicate

that the average duration of treatment and the inter ference with working ability was much greater in the first group than in the second and third groups Volkmann (Z)

Juvara E Fracture or Detachment by Avulsion of the Internal Condyle of the Humerus with Penetration of the Fragment into the Intra Articular Space The Necessity for Immediate Operative Treatment by Osteosynthesis (Fracture ou décollement par arrachement de lépi trochlée avec penétration du fragment dan linterlique articulaire Le traitement operatoire durgence ostéosynthetique simpose) B ll et mit S c nai de dur 1930 hi 847

The author has recently treated three cases of fracture of the internal condyle of the humerus. In two the condyle entirely detached by avulsion became lodged in the articulation between the olecranon and the trochlea maintaining the forearm in abduction and inbibiting movement of the joint. In one case the fragment became located at the side of the intra articular space behind the coronoid process where it interfered with movement of the ioint.

Juvara was able to study the avulsion site in two cases in one instance after a lapse of two days. The surface had a granular aspect and was free from spongy tissue which proves that although the condyle was joined to the diaphysis the union was too recent for bony consolidation and the fragment had yielded at the juncture line. In two cases the fracture was due to avulsion by the entire fibromus cular apparatus which is inserted there and was stretched and bent under the influence of a trauma that forced the forearm violently back in abduction. The chinical diagnosis of such a fracture may be difficult because of the swelling around the elbow but the roentigen diagnosis is easy.

The only satisfactory treatment is operation the fragment must be extracted and refixed in position. The operation is one of urgency. When it is done in the first two days it is easy. After that it may be difficult.

The author describes his operative technique in detail and reports three cases briefly with roent genograms taken before and after the operation

FLORENCE A CARPENTER

Christopher F Compression Fractures of the Spine Late Results in Conservative Treatment of Uncomplicated Cases 1m J Strg 1930 ix 4.4

Compression fractures of the vertebræ are the re sult of hyperflexion of the spine which occurs partic ularly in falls Of late they have become more common in women because of automobile accidents

One of the most important single factors in the treatment is the proper care of the patients mental condition. In the author's opinion the patient should be informed of his condition truthfully and accurately. He should be told that he has not a broken

back in the usual sense of the word but a lesser in jury of one of his vertebræ and that the prognosis is e cellent if he will follow instructions implicitly

The author's usual treatment consets in suspend ig the patient prone in the I ammock of an 'abbott frame with the back in hyperettension and applying a plaster body cast in this position. In some ca es a strong downward thrust is made over the injured vertebre before the cast is applied. After the patient is placed in a bed a large ventral is indow is cut in the cast to facilitate respiration and keep the pat ent comfortable after eating.

The patient is kept recumbent for at least six veeks and then gradually permitted to walk about with a vell fitted Taylor spine brace. The spine brace is worn for from three to nine months and then

removed gradually

In the cases of two of the author a nomen patients a body cast was not used the entire treatment heing carried out on a Bradford frame in lordosis In the cases of rather fragile clderly women Chri topher has recently employed up, and traction to a Balkan frame to secure hyperextension After the patient is placed on the Bradford frame an ordinary woman's corset is placed under the site of the injury. The sides of the corset are then trammed off and attached hy numerous adjustable tapes to a 12 by 14 in ooden spreader bar The to spreader bars are in turn attached to an overhanging spreader which is suspended from the Balkan frame by a turnbuckle attachment The turnbuckle is tightened up a bitle each day during the first week until the proper hyperextension of the spine is secured

After the patient is ambulatory it is important to adjust the Taylor spine hrace with brace wrenches so that it conforms accurately to the lordous curve

of the back

Of nine cases treated by these conservati e meas ue a mad folio ed for twe ty seven and a half months the result was excellent in five (555 per cent) good in three (333 per cent) and fair in five (17 per cent) and fair in five (17 per cent) and fair in five for the five forms one (17 per cent).

Lange M End R sults of the Non Operative
T eatment of Cong mital Disloction of til
Hip (D E d it d bleg n B hadig
d ng b H eft e kug) i h did
d i h th p G lish o 3, pp 9 66

American su goo believe that an interval of three years is sufficient to demonstrate the end results of reduction of congenital dislocation of the hip Lange accepts this view Cases with normal anatomical findings he considers cured. He reviewed the cases of about 1 500 patients with a total of over 2 700 dislocated hips.

In 5 per cent of the case's reduction could not be effected. In 3 per cent the hip under vent redu location while it was in the cast and in 4 5 per cent after the removal of the cast. Subhivation occur ed in 8 per cent. The cause of reluxation and subhivation was a flat acetabulum in 75 per cent of the case anteferois on 120 per cent and the interpos tion of

soft parts in about 5 per cent. Late luxation and sublu ation were probably the result of increased use of the joint but they never occurred in joints that were anatomically healed. The incidence of cota vara was 3 5 per cent Si ce cota vara does not develop until after the second cast h s been put on Lange attributes it to reduction of the degree of abduction during the changing of the c st Late coxa vara which constituted a third of all cases of cova vara is a consequence of functional overlo d The incidence of deformity of the bead was cent Lange att ibutes deformity of the head to the age of the child at the time of reduction and be heves such deformity is rare v hen reduction is do e in the first two years of life The degree of motion in the hip is usually good in spite of deformity of the head The causes of deformity of the head i clude reposition trauma poor fitti g together of the head and the acetabulum and disease of the endo crine glands. For the prevention of deformity of the head the reduction must be done as early as possible and gently the head must be placed deeper in the acetabulum than usual and after removal of the plaster cast weight bearing must be resumed only very gradu lly

Changes in the acetabulum were few in the eases reviewed. The cause of failure of formation of the roof of the acetabulum must be sought; a constitutional deficiency in the capacity to form new bone. Permanent contracture occurred in only 2 per

cent of the total material The number of temporary

contractures was greater
In conclusion the anatomically ideal cures are
discussed Their incidence was 63 7 per ce t
Recentgenograms sho ed normal relations and the
mo ement of the bip was unrestrieted. If to these
very good results the cases vit bigood function are
added good functional results were obtained in 75
per cent of the cases.

GLESS ER (Z)

M s t R Th Sugic 1T atment of Neglet d P intul Congenital Distrations of the llip by the Bif rection Op att n thin the Formatin of a Butt (T in the pild of a tell of the pild of the pild

The e cellent results that have been obtated in reducible congenital dislocations of the h p by building up the border of the acetabulum with bone graft have led surgeons to construct a buttress above the head of the femure even when the latter cannot be brought into its normal position. The distance of the sprocedure—prome nence of the buttre ab significant of the production of the sprotein of the sprotein of the surface of the surface and the significant of the surface of the sur

In the procedure desa abed an asteotomy is d ne through the lesser tr ch nter and the sect on is c m pleted by fractu ng the rema ming bone the med al insertions of the mu cles being left intact. The dit I fragment is then forced into the accetabulum. By detaching the capsule from the border of the aceta bulum (through a Smith Petersen incision) the upper fragment is brought down as far as possible. A pedicled flap of bone is then fashioned from the external surface of the ilium and turned down over the head of the femur to form a shelf

After the operation the extremity is immobilized in plaster in abduction and internal rotation for a

period of three months

In the cases of two patients who had previously been confined to bed the results were excellent ALBERT F DE GROYT M D

Lasserre C Osteoplastic Buttressing of the Hip Joint Technique Results Indications (Les butes ostéoplastiques de la hanche résultats indication) Bordeaux chir 1930 No 1

The treatment of congenital dislocation of the hip by osteoplasic operations is one of the greatest ad vances in orthopedic surgery. However the indications choice of cases and technique are still matters of controversy

The objects of osteoplastic operations are to provide adequate pelvic support for the femur and to

correct the faulty position of the osseous levers and muscle insertions and the shortening of the extremity

In a first degree or anterior luvation the building up of the border of the acetabulum will be sufficient for a good functional result but in the more ad vanced forms the head of the femur may escape around the buttress

The methods of extra articular buttressing are of the following three types

r Modification of the orientation of the ace tabulum by lowering its external portion. In sub-luvations the head of the femur must be lowered by forced abduction. The greater portion of the border of the acetabulum can be lowered by forming an iliac flap. The deed space is filled with osteoperiosteal grafts from the tibia or iliac crest.

Partial reconstruction of the acetabulum with an iliac bone flap to form an artificial roof

3 The formation of an osseous buttress in the iliac fossa

The extra articular operations are well supported Intra articular procedures are attended by consider able shock and as Gourdon stated in the discussion usually result in ankylosis

ALBERT F DE GROAT M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Macaigne M and Meau P Chronic \odula Perta teriti Kussmaul s Di se (P a tênte en e (m I d d Ku m 1) at m chr ngu ) B li 1 ém S méd d k p de Pa 193 xt 665

Nodular perinterities as first described by Kuss mud and Mare in 1866. Since then many cases have been reported most of them in the Cerman and Austrian literature. The majority of cases have been of the acute form and fatal. The diagnosis is usually made at nutions.

usuriii made at autopsi

The authors case is unusual in that it was of the chron c form in the largnoss as make by buopes. The general st mptoms consisted of a very 1 regular feet ros illating ith remutances between 100 and 100 3 degrees I. The pulse variet between \$5 and 100 3 degrees I. The pulse variet between \$5 and aga and I love the temperature. There was marked astheria associated the pain in the museles and along the nerve trunks particularly in the upper extremities. The pain is especially see ere in the region of the ulurar ner e. On the pallmar surface of the left rist there, were small modules which appear of at a bout the beginning of the illness. These

ere located in the lermis. The first symptoms were chills and feer indigest in loss of appetite and ocea ional attacks of diarrhera. These were soon f llowed by the generals ed pains. From the history it seemed certain that the par ent has suffered a similar att ck eleven vea s pre iously. It that time ho e er the nodules were formed in the lo er tremit. During the period from 1922 to 1928 the disease high recurred ere vivear.

In the course of the last attach, nodules varying as it from that of a buckshot to that of a he chui appear dat the an le of the jax and on the side of the neck. Their delopment va associated it is just it a nand it high When they ver fully decloyed the octiving skin be ame first red and then co tot and tile as the vith the formation of a

er te bich soon eru te l

Oc a nails the it let a were e tensive They co sist I fpl que (phlyct nula) made up f minute vesicle v hi h later exuded a iscid vello fluid

Blo d cultures yere reg to e. The blood count was leucoxytes 0 000 eryth 0cytes 3340 000 folymorph nucl ars 60 per cent eusmophil's 12 per cent 1 Jmph c tes 10 per cent and monomul clears 61 cent The humoglobun was 70 per cent

Biops on the n dules reve led the typical arterial lesions. In e ch nodule there ere one or more arteriale shi ig periarterius and great thickening of the mus ul ris due to dissoci tion of the fibers by a cellul fibrosi is av. boust the artery there e e c neent is lamellae of very cellular fibrosi issue. In the dermis there was a dense infiltration of bymphocytes and polymorphonuclear leucocytes ith areas of necrosis flanked by giant cells. These lesions somewhat resembled those of actinomy cosis I florts to solate an organism were without result.

Horts to isolate an organism were without result Hor ever the character of the disease cla sifies it with the infectious granulomata

ALBERT F DE GROAT \I D

Lelbl of: E Th Ambulatory Treatment of Post operatie as d Furpersal Thrombonhlobits with Fia tie Supportie B nd ge nd its Viedico as cial Impo tance (De The pe der pot pe att en und pur prilen Th mbophileh id n mit pi toche Stet is herba d wid b so i lir dier sche Bede tu ) M k m f Wichael Ag 1 1 1 7

The theories regarding the eause of thrombo phlebitis are re iened. In the treatment of the condition which is employed by the author the lo s of clasticits of the tissues is c mpensated for by a bandages bick applied ups and from the ball of the great toe decreases the circumference of the lea to an extent sufficient to cause the venous and lymph spaces to approach the normal and thereby hastens the reflux of tissue fluids The simultaneous relative rest provided for the tissues is also of aid a the ambulators treatment of the pathological changes The resistance offered by the bandage to the muscle contractions in voluntary and involuntary mo e ments results in a physiological massage which further regulates the blood and lymph circulation improves the state of nutrition of the tiss es causes the absorption of inflirates and favor cure of the patholog cal condition by proper local treat

The technique of applying the bandage 1 described in detail. The anothere of tembolism in treatment with such a bandage is very lo. It is aimmations of the saphenous venir sent better than tho e of the ferroral venis. A case of philegimus a tibs dolens was favorably affected by the treatment described. The bandage treatment is of advantage not only to the patient but is no to the hosp tall and insurance companies. The results in is it, one cases are reported.

Smitt i lek R II nd Whit J C Tle Elimina tion of Pain in Obtite attle Va cular Dle 28 of tt Lo cr Ext emity A T cluique f Alcohol Injection of tl S n ory Nerses of the Low Leg S rg On &Obl 930 1 394

The authors have found that pain in the low r legs and feet secondary to object accular disease can be relie ed by alcohol injects n of per inperial ner es without causing paraly 1 of any of the important muscles of the leg or foot A careful operative technique and scrupulous asepsis are essential A serious slough may be caused by spilling alcohol into the tissues. Incisions should he made above the lower third of the leg and should be vertical. They usually heal hy first intention. Depending upon the length of the nerve trunk injected the anæstbesis produced may last hut a few months or may be permanent.

The relief of pain was responsible for the saving of six of eleven legs otherwise doomed to amputa tion The authors state that it should never he necessary to sacrifice a leg because of pain After desensitization of an extremity by the method de scribed they frequently noted that the foot hecame drier and warmer and that previous color changes were eliminated. The surface temperature may rise 5 degrees F This increase is probably due to the elimination of sympathetic stimulation as the result of the relief of the pain and the interruption of the course of the nerve fibers to their peripheral destina tions The majority of the sympathetic nerves course peripherally with the sensory nerves. The injection of alcohol is apt to he succe sful if the popliteal artery pulsates but in cases of arterio sclerosis with arterial obliteration above the popli teal vessel it may precipitate actual gangrene and

hasten amputation even if done in two or three stages. The authors believe that when in cases of the latter type amputation is necessary because of pain it is justifiable to desensitize the extremity first. After an extremity has been desensitized ulcerations which previously resisted all methods of treatment will frequently heal

JOHN H GARLOCK M D

Zanardi F The Surgical and Physiological Value of Arteriovenous Anastomosis (Sul valore chi ru 4000 e fisiolo 100 dell anastomosi artero veno a) A chi tidi di chi 1930 vv. 1463

In experimental studies of arteriovenous anastomosis of the femoral vessels the author found that soon after such an anastomosis the arterial blood became arrested in the veins as it was unable to overcome the resistance of the valves of the veins. In some of the experiments be observed that soon after the operation the upper part of the artery was filled with blood which pulsated and that pulsation occurred also in the collaterals. The outflow in a limb after arteriovenous anastomosis occurs through the collateral venous system which is insufficient to prevent stasis. The most frequent result of the operation in the experiments reviewed was throm bosis.

# SURGICAL TECHNIQUE

### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Martin II F and Ellis E B Biopsy by Needle Punctu and Aspiration 1 5 £ 93

Several forms of trocar or needle for obtaining tissue from the hiving subject have been devised from time to time but all have the disadvantage of being special instruments not readily a silable. The procedure presented by the authors requires only an 18 gauge needle attached to a Record syning and is advocated as being most un ersilly applicable.

The indications for biop y by needle puncture are tumor masses lying below the surface of normal tis sue \ here surgical exposure is contra indicated The contra indications to biopsy by surgical exposure are the danger of local or general dissem ination of the disease or the fungation of tumor tissue through the operative vound interference with subsequent surgical procedures the surgical risk including hamorrhage and infection in obtaining specimens from deep masses and lack of justification for discomfort or expe se to the patient then the information may be of doubtful value Biopsy by needle puncture has none of these d s advantages a d is associated with negligible risk It does not require hospitalization it is acceptable to the patient and it makes possible bistological diagnoses other ise unobtainable or deferred

After sterilization of the skin and infiltration with a r per cent novocain solution a stab wound is made with a bistoury pointed calpel. The needle is inserted and advanced slowly guided by the free hand until it is felt to enter the mass. The pi ton is then partly withdray n to produce suction and with the vacuum maintained the needle is advanced and withdrawn from 1 to 3 cm the movement being repeated two or three times if advi able Before the final withdrawal of the needle from the t ue the pi ton is released to prevent splashing of the contents of the needle up into the syringe After withdrawal of the needle the syringe is re moved from it and filled vith air and the contents of the needle are carefully e pelled onto a glass slide. A search is then m de for small fragments mixed with the blood or fluid in the syringe When the syringe contains blood or tissue it is I lled with to per cent formal a solution and then emptied into the specimen bottle A small portion of the specimen on the slide is prepared as a smear and the remainder is I repared as is any small biopsy specimen. The methods of fixation and staining are described in detail including a quick paraffin method requiring about three hours and the preparation of the smear which takes only a fex minutes

Patholog cal e perience and careful prepar to on of the specimens allo accurate diagnoses from aspirated miterial. The smear is usually sufficient to distinguish between an inflammatory poess and a mal giant tumor with atypical cell occur ing's nighous. The parafin section allows classific tion and often grading of the maligiant prices. A particular search should be made for groups of cells atypical in size and shape with definite hyperch o matte nuclea and care must be taken not to plaje too much reliance on the direct smear which fails to show a definite group of south atypical cells.

In almost all cases at is possible to ditinguish between beingin and mal giant lessons by the method described. The results have been checked in 60 procent of cases by parafin sections on bops es obtained by the usual methods later in the course f

the disease

In the interpretation of smears or sections the source of the material must be kept in mid and and a structure foreign to the type of tissue through which the needle has passed should be noted

SL ty five case of neoplastic d sease in which the diagnosis vas made by the method described are listed in a table

E S PLATT MD

### B zin A T The Surgical Problem Pr sented by th Diabetic C rad W i J 93 46

When it is properly controlled diabetes d es not influence the treatment of p ognosis of acute sur gical lessons but when it is not controlled the prognosis as to lealing and recovery 1 poor

In a sense of set entry three operations of diabetics there were two surgical deaths a mortal ty of 274 per cent. In a large number of operations perio med on not diabetic patients in the same period the operative mortal ty as 247 per cent. It is evident therefore that properly controlled diabet es are subject to no higher mortality from operation than non diabeties.

The control of diabetes by unnalysis alone is imperfect and often inadequate. It is not the sure creted in the urine but the sugar retained in the uncutating blood which indicates the e-tent of the disturbance of earbohydrate metabolism. Moreover the amount of sugar in the urine is n t always an and cat on of the amount of sugar in the blood.

It is sometimes difficult to d t aguish bet cen an acute abdominal lesion and the diabetic p eudo acute cond tion of the abdomen. However, in the former the pain precedes the vomiting whereas in the latter the vomiting precedes the p in. Moreo er in the latter there is an indefinite diffusions it agas elasted upon abdominal e animat on and the general d sturbince is out of proportion to the abdominal findings. The author reports a case in which an infected ulcer failed to heal until a low grade hyperglycemia was corrected. It then healed in twenty days

Faulty wound healing and the development of a low grade skin infection may be dependent upon a disturbance of curbohy drate metabolism. In such cases small doses of manine evert an influence upon the indolent wound which is altogether undependent of its effect upon the sugar content of the blood

Diabetic gangrene is of two varieties. In one the chief factor is infection which progresses unhindered because of impairment of the resistance of the its sues by hyperglycamia. In this type saprophytic and putrefactive organisms which at times are gas forming are common. The arterial and capillary circulation is normal. The treatment consists in measures to control the diabetes and infection. When amputation is necessary, it may be local and conservative.

In the other type of diabetic gangrene circulatory disturbances are dominant. This is the senile gan grene of the diabetic. It is known that diabetes predisposes to early artenosclerosis. Senile gan grene is due almost entirely to obliteration of the capillary circulation. In many instances the distal arteries show no pulsation but the extremity is warm and well nourished and no great difference in blanching or rubor is noted when its position is changed Conservative amoutation is often success ful but when the extremity is cold and shows a marked change of color with changes of position atrophy of the skin and subcutaneous tissue and absence of pulsation in the popliteal artery gan grene of even one toe calls for amoutation at the mid thigh

Acute pancreatus is frequently followed by diabetes. The author reports seven cases. Acute pancreatus is almost invariably associated with infection of the bilary tract. In such cases the common duct should be routinely drained at the time the gall bladder is removed. The author presents the blood sugar curves of two diabetic patients one treated by cholecy stectomy with drainage of the common duct. In the first patient the blood sugar did not materially change but in the second it returned to normal Graphs are presented which show that when the common duct is mot drained the blood cholesterol is not reduced to normal and in a few months is greatly increased. STANKLY H. MENTERS M.D.

### Sackij A. The Microflora of Operative Wounds (Mikroflora der Operationswunden) Nov I i I 1929 zviii 304

In the Girgolav Clinic the field of operation is prepared by the Grossich method with 2 applications of alcohol and the surgeon's hands are dismifected by the Ahlfield method except that the dismifection is continued for ten minutes mistead of only three or four. The author examined the operative field bacteriologically in 132 aseptic operations performed in this clinic. As a rule 2 cultures were made

from the wound one immediately after the skin incision and the other just before the suturing of the skin

In 18 cases (13 per cent) no bacterial growth could be obtained. In the remaining 114, the following bacteria were found staphylococcus albus 40 mimes staphylococcus autrens 19 mimes staphylococcus cus citreus once diploroccus lanceolatus 28 times diploroccus vulgaris twice bacillus subtilis 24 mimes micrococcus catreus once Friedlaender's diplococcus 3 times and sacrieus bacillus proteus vulgaris and cocci once each. Usually pure cultures of a single organism were found arely mixed growths of 2 bacteria Streptococci were never found. In aseptic cases without bacterial growth healing occurred by primary intention. Of the infected cases suppura tion occurred in 8 and harmatoma formation in 16

The author concludes from his study that most aseptic operations are accompanied by bacterial infection. The dipleocecus lanceolatus and staphy lococcus aureus seem to be the most important causes of suppuration and postoperative infiltrations. The presence of bacillus subtilis indicates infection by air.

During grippe epidemics the greatest care must be given to the preparation of operative fields and disinfection of the surgeon's hands. Admittance to the operating room should be denied all persons convalencent or recently recovered from grippal infection. This rule should be applied also to the operating room personnel. The diplococcus plays a particularly unfavorable role in grippe. Microorganisms present in the operative wound frequently do not disturb primary wound healing.

### G ALIPOV (Z)

### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Apostoleano E A New Point of View in Surgical Treatment Does Mechanophysiotherapy Suffice? (Sur une nouvelle onentation dans la the apoutique Chruripicale La mécanophysiothérapie suit télie?) R y dr kr Par 1930 vity r

The author has studied the efficacy of various methods employed in the treatment of wounds. In experiments on horses three or four areas about 10 cm square in the costo abdominal region were de nuded of skin subcutaneous tissue and superficial layers of muscle and the healing process occurring under the usual methods of treatment was compared with that occurring under the newer mecanophy siotherapy Apostoleano believes that healing and particularly the formation of granulation tissue is not merely the result of a local process but depends largely on the function of the body as a whole It is the result of a complex bodily function which directs the protection and the anatomicophysiologic cal integrity of the organism. The healing process sets in more quickly in a wound which is exposed to the air heat therapy or heliotherapy than in a

wound which is treated with antiseptics or wet or dry dressings A dressing on a wound delays the appearance of healthy granulations and furnishes conditions favorable for the growth of bacteria whereas at rothermotherapy and heliotherapy main tain conditions which are unfavorable to the growth of bacteria. A dressing is sometimes of value to tiro tect delicate granulation tissue from trauma but should be used only for aseptic wounds. In infected wounds it is dangerous

TYTHON R CAMERO M D

### ANÆSTHESIA

Franken H Respiration Circulation and Mi culatu e During Narcosis Studi s of Their Behavio and the Pos ibiliti s of Influencing Them in Man and Animal (Atmung L. \ L und Mu ulatu hnld Stu ! n be I haltung u i B nfl ngb Mn hu 1 1 / / 6) £ 93

The author describes experiments and a ne a ner cosis apparatus for the study of the character and frequency I tests att n in man an l animals apparatus is some that similar to the Guathmes

apparatus

In the experiments reported the behavior of the respiration was registered in normal pers as under avertin narcosis and in narhaphin scopolamin tvi light sleep. It was found that avertin I ers the resp rat to function by about 40 per cent for t o hours f llowing its introduction. This reduction cloes not accompany uncoud tionally the decrease in bloo ! pressure which varies widely in different pers no The respiratory center reacts very vell to carbon di vide in avertin narcosis. The use of avertin mar cos s athout facilities for administering ca b n di oxide is the acterized by the auth r as negligence Preparation for na cosis with the usual doses of narhaphin scopolamin acts t increase or reduce the respiratory fun ton according to the particula case The behas or of the respi ati n in cats and rabbits with and without preparation ith urethan under narcy len nitrous oude and ethylene is sh AB graphically and in tables. The result diffe accord ing to the species of animal and acco ding to the gas preparation ith urethane has a considerable influ ence Comparative studies on man ha e n t been made

In man acetylene and nitrous oxide increase re spiratory function. In the stimulating effect of the gases on respiration may be seen a cause for the shight shiftings in the acid base equilibrium as the expression of lowered oxidation processes The effect of carbon dioxide on respi atory v hime per minute in narcotized human beings is di cussed and com pared with the effect of drugs which stimulate res piration-lobehn caffein card azol and corariin The specific exciting action of lobel a on the esp ra tory center in man is dem nst ated objectively intramuscular injection f this drug even in large doses has little effect on narcotized human be ngs When the venous route is used the effect consider

able and immediate though transient. The thera pentic breadth is slight Callein o 2 gm introduced intravenously raises the blood pressure only very slightly but increases the respiratory volume by 14 per cent for about four minutes When cardiagol or gm is given intravenously the blood pressure is raised from go go to 10, 65 but the resourators vol ume is increased by 14 per cent for only one and six tenthsminutes Coramin 0 025 gm by the venous r ute does not change the blood pressure but increas es the respiratory execution to per cent for six minutes the effect being therefore one sided exciting the respuratory center

I compar son of these observations with those of earlier invest gations makes it plain that none of the drugs muestigate I is as effective in stimulating res pi ation as lobel a. When administered intraven ously I beliannereases the respirato y volume 100 per cent and mo e though all for a few minutes None of the intravenous methods in use at the present time excite the re pitatory center to more than a limited legs e or for more than a limited period Carbon doude on the other hand everts on the re pirators volume an intensive influence hich can be made stronger or seaker at will and prolonged as much as desired pr vided the power of inspirat on is

still pre ent

The author next reports investigations of the be ha for of the circulation under acetylene ethylene nite us oxide and a crtin. The blood pre sure in case and tabbits with and without preparation with u ethane is recorded. The blood pressure was raised by acetylene and ethylene but was uninfluenced by n t ous oude. In human beings determinations were mad sith the Smith and Haldane method with re gard to the beha for of the total quantity of circu lating blood in ether avertin and narcylen narcosis t alight sleep and spinal anaisthesia from the point of sev of the danger of collap e in the sense of Eppenger and Schuermeyer In this experiment the amount of blood in circulation behaved ab ut the same as the blood pressure a e with a falling blood pressure there was a decrease and with a rising blood pressu e there was an increase in the total quantity of blood in circulation. Accordingly, gas narco is opposes c Hapse The other methods favor it Spinal anxisthesia favors collap e only in the first fifteen

The output of the heart was measured by Baplim's method in animal under the influence of the gases narcylen natrous oxide and ethylene Under nar cylen the output of the heart increased in corre spondence , th the increase in the blood pressure I thelene also me eased the output of the heart

It ous or de had no influence

In experiments carried out on rabb is to compa e the effect on smooth muscle of the different drugs used to produce narcosis it was found that acetylene exerted a powerful exciting influence on the contrac tions I the puerperal ute us nitrous oude had a si whiter effect or none at all and the effect of chloro form and of other was strongly paralyzing

The influence exerted on striated muscle by the different agents used to produce narcosis was studied on the rectus abdominis of rabbits. As in clinical experience the muscle was completely relayed by ether and chloroform. Nitrous ovude did not in fluence its tension. Acetylene caused a pronounced state of tension. The acetylene tension could not be overcome by Crile's rectus blockade but was successfully combated by total blockade at the periphery.

A HEYN (G)

### Koster H and Weintrob M Spinal Anæsthesia Fatalities Am J Surg 1030 18 234

There have been numerous fatalities following operations performed under spinal anæsthesia Some of them were probably due to the type of anæsthetic employed but a great many others apparently had no relation at all to the anæsthesia Statistics regarding deaths from spinal anaesthesia will vary with the experience of surgeons employing this form of anæsthesia. Statistics from climes in which subarachnoid block is used routinely show a much lower death rate than those from hospitals where spinal anæsthesia is used only occasionally Death due to spinal anæsthesia usually occurs soon after the introduction of the anæsthetic into the sub arachnoid space whereas death due to inhalation anæsthesia may not occur until a considerable time after the completion of the operation The danger of respiratory failure from the action of the drug upon the medulla consequent on its upward diffusion

s neglighle The explanation of deaths following pinual anesthesta requires greater care in the study of the phenomena attending such fatalities and thorough autopases. The authors review a series of fatalities cited by Rygh and Besseen.

In the discussion of the value of spinal anaesthesia before the Society of Surkery in Paris in 103 and 1924 to 267 cases were reviewed in which this type of anasthesia was used with 10 deaths. These cases are tribulated as follows.

	Sp 1 acthes	D th
Duver ney	2 256	I
Jonessco	5 48	۵
Dujarier	4 000	4
Cauchois	500	1
Plission and Clavelin	1011	0
Lepoutre	500	0
Leclerc	300	0
Labey	680	3
Sauv	1 000	0
Chifolian	1 000	0
Riche	3 539	I

The authors analyze these fatal cases 4 fatal cases which they reported in 1928 and several others

In the authors total number of almost 6 000 general surpical cases there were only 6 deaths on the operating table. In all of the fatal cases the operation was performed under spinal anaesthesia.

FRANK J McGOWAN M D

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Guggisberg II The Influence of the Roemiden Roys on Offspring (I) f. flu de Ronig n t hl n auf de hkomm n) Sch m d Il hn I 7.3 2 3

The author states that except in irradiation with the object of castration in which nevertheless a suitable interval should separate the irra hation from the last sexual act in order to exclude the possibility of injury to an embryo no irradiation of the abdo men not even a d'agnostic exposure during preg nancy should be done t thout considering the possi bil to of injury to offspring. The same caution is to be observed in the so called stimulative irradiation of the ovaries especially since the mode of action of such treatment is still a holly hypothetical. The author disapproves of tempo ary castration and warns against irradiation for inflammation except when the changes in the adnexa are so marked as to make fecundation extremely improbable CO IEV (G)

Widmann B P and W atherway J L A Clinical E aluation of Radium and Roentgen Therapy in Advanced Cane r fth la jous Combinations of Way L noths te 1 tat x

This article is summarized as follows r Clinical experience indicates that certain

cancers are rad osensiti e and radioresistant

2 Highly cellular cancers are extremely make nant and also ery radiosensitive

- The future success of radiation therapy of alian ed ancer must depen l upon the de el p ment of som means that all permit the administ a tion of greater quantities of radiation than are renevally used and still preserve the integ its of the normal to sues as vell as the general health
- A The skin erithema dose or skin tolerance should be standardized by systematic and repeated ionization cintrols. A constant reading ionization system is ideal for this purpose. Every radiologist should kno v the milliampere minutes dose equivalent to a given number of roentgens for his particular machine Experience with more than 1500 do es of roentgen rays indicates 800 s to be a sale ery the ma dose
- 5 Prolonged irradiations according to Regaud are indicated by the impro ed radiation effects at varying stages of c ll divisi n as obse sed experi mentally and clinically
- 6 Chinical esult point to a selective action of gamma radium ays ( ) th filtration equivalent to 2 mm of platmum)
- 7 Combinations of different short ave lengths of roentgen rays (2 0 000 volts filtration by 0 5

to 15 or 20 mm of copper or zinc) or in con junction with gamma radium packs to the same shin area will increase the skin tolerance for radia tions from 30 to 40 per cent

8 The combination of the shorter wave length radium and roentgen rays with a multiple skin port technique offers a safe approach to a method of administering 2 to 3 times the depth intensities of radiations that are generally obtained without del eterious effects to the skin or general vell be ng

9 Chinical impress ons justify the inference that improved end results will be obtained in advanced cancer by the systematic application of combined short wave length radium and roentgen rays

Zalenski F An Exten I e \ Ray Burn of the Skin Cured by Repeated Blood Transfesion (Bro lu e tr s et nd e de l p au pa les rayon \ que translu on san un répétée) Ree d h Ia 1 010 75

The case reported was that of a man thirty years of age who sustained a very extensive & ray burn over the lumbosacral region during \ ray exposures for discussive purposes. Local treatment by the usual methods for six months failed to cause improve ment. When the patient came under the author's observation he was in a state of extreme cacheria Fire blood transfusions given in the course of several eeks a ere followed by healing of the les on and ANTHONS R CAMERO MD good recovery

#### RADIUM

Sleve t R M The Int nelty of Camma Rays at the Surface and in the R gion Immediat is Surrounding Radium A edies (De 7 Sirab fun at n ta t n d Oberfi e be und n hat n Umgebung on Rad umnad 1 ) 2 1 93 40

This article contains calculations of the dist bu tion of intensity on the surface and in the immed ate vicinity of rad um preparations particularly radium

needles for interstitual irradiation

Three different needle d ameters (outer diameter 5 20 and 3 0 mm ) and six d fferent needle lengths (os ro ts 20 30 and so mm) vere investi gated The cylindrical needle wall vas assumed to be 5 mm of platinum A formula given in an earher article (icia r d ol 1921 1 89) was used The calculate as are carried out with maximum and minimum values for the absorption coefficients in volved (radium sulphate platinum and tissue) The results show the relative intensity values of diffe ent types of needles to be ubstantially un changed by e ors in the absorption coeff cient By means of a graphic method of integ ation it has

been proved that the irradiation intensity at the surface of radium preparations with a length greater than 1 cm and an outer diameter less than 2 5 mm may be computed as if the radium were concent trated in the preparation axis provided exactitude

within 5 per cent 1 sufficient.

Proceeding from the gamma intensities at the surface of the preparation relative values have been collocated from which may be determined the irradiation time that with the use of different types of needles will give the same dose at the needle surface. As the intensities at this surface reach very high values on account also of secondary beta irradiation from the outermost layers of the preparations the suggestion is made that a maximum time of treatment which must not be exceeded when the different types of needles are u ed might be determined from these surface intensities.

The results of the calculations are collected in a number of tables and diagrams from which intensity data applicable to all cases occurring in therapeutic practice may be obtained. The distribution of intensity for different types of needles placed in one and the same plane bas also been investigated and corresponding curves have been plotted. It is pointed out that the values obtained are comparable only to a certain extent because of the qualitative differences at varying distances from the radium needle which are due in part to secondary beta irradiation.

At the end of the article are formulæ diagrams and tables for determining the irradiation intensity on the surface and in the immediate vicinity of radium preparations. Among these is a table of the

function 
$$\int \frac{-a f}{c \sigma} d \varphi$$
 which is particularly important for the calculation of the intensity of rod

shaped preparations

# MISCELLANEOUS

### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Bruni A The Influence of Glucose on the De el opment of Fischer's Plenomenon (Influence of glucoses Il lg m at diffe me d f ch) Sp m tal 93 l v 75

The author reviews hriefly the literature on the eperimental production of epithelial probleration (I scher's phenomenon) following the local injects in of various chemicals. Noting the important relation between carbohid drate metabolism and neoplastic development he investigated the influence of pluco e or Fischer's phenomenon. The results of his studies show that the daily injection of large doeses of glucose are studied to the companied of the production of the production

\ Lo TS Ros \ M D

Mason J B De m ld Tumors 1 S g 93

During the period from 1910 to 1939 inclusive fifty patients vith desmoid tumors were seen at the Mano Clinic. In the cases of thirty nine (78 per cent) information regarding recurrence was obtained from the patient or some other sou.

Of the thirt in e cases in which the tumor was in the abdominal wall data concerning recurrence v as obtained in twenty nine. Recurrence developed in six Of the eleven cases in which the desmod tumor was stuated el ewher than in the abdom nal vall a eply to the questionnaire vas received in ten and recurrence was reported in one.

Recurrence de eloped in the ecases in which the tre trient consisted mainly or entirely of radium or roenteen ray irrad ation. In a fourth case this treat

ment vas others i e unsuccessful

Of thirty five cases in which surgical operation was the only or the principal method of t eatment recurrence is known to have de eloped n four

Sénèque J and G inda J P Sacrocorcyg at Cho d mata (L s h d m sa ro o vg ) J d ch 93 x 8 7

The authors report forty se en cases of sacro coccygeal chordoma The art cle is supplemented ith photomicrographs and a bibliography

Chordomata were first seen in the oce pital reg on by Yirchow in 1837 Virchow th ught they o ig insted from cartilage but in 1838 Mueller dem in strated that they are efform rests of the notochord Later they were preduced in rabbit by purcturing the intervertebral disks.

Sacrococcygeal chordomata were not described until 1910. They are most common between the

ages of forty five and fifty years but the occurre ce of a sacrococci geal chordoma in a newborn infant and in a gi I fourteen years of age has been recorded About two thirds of the subjects of such tumors are men The chordomata may be presacral r retro sacral or occur in the bone itself. In some cases they are not connected with the bone at all Aberrant chordomata de elop from aberr nt rests of the notochord They vary from the size of mandan orange to that of an adult s he d and are rou d or oval They are ge erally quite regular but my be nodular from the prese ce of cysts. As a rule they are adherent to the hone and sometimes the to of the c coxx lies s ithin the tumor They in ade the local to sues extens elv but seldom form metastases As the so calle I physaliphore cell 1 characteristic they cannot be confused with any other form of tumor on microscop c e amination

The chef symptom a dull continuous pain high as uncreased by movement and the sitting position. Frequently the patient is unable to a down. Wallham; so oftem the difficult by scatte neuralga. Involvement of the term nal part of the miestine by the tomor is associated with stubbor constipation and the appearance of bill od in this sools. When the diagno is it doubtful it can be cleared up by rectal evamination. The gravith of the time is sool for a long time. The average duration of the disease is from five to seven years. Recurrences depend on the time and thoroughness of operation. The spencially result from complete removal of the

tum r

A rochtgen examination should always be made e en if it shows only a bone lesion and not the nature of the tumor and a negative rocatigenogram does not e clude the p esence of a chordoms. I the beginning a chordoma may be confused with a simple contusion or fracture and later with coll abscesses of the home. Congenital sa rococcy geal cysts must all observations.

The only treatment 1 surgery. Roentgen and radium therapy are generally not advis able 4s the neoplasms are malignant e tirpat on should include the tumor the last two sacral vertebrer the e crix and the inse tions of the muscles. In some case in which the tumor is high complete estimation is the bone. Since on account of the nerves which emerge from it there are account of the nerves which emerge from it there is account of the nerves which emerge from it the entre sacrum cannot be emo ed t is perh ps better to give irradit on the app, in the except that the area of the specific proposed in the specific proposed

AEDREY G Mo GA. M D

Oertel H On the Mechanism of Cancer Development Canad an M Ass J 1930 xxii 183

The cancer cell is the expression of an atypical cell regeneration due to continued disturbances of the normal relations between the tissue cells and their vascular supply and innervation which bring about modifications in the course of cell differentiation. Its metabolic and formative functions therefore differ from those of the normal relis and cell growth.

It develops and grows on the basis of a general and organ disposition (metabolic peculiarities) in the

host tissues and in itself

The cancer cell is therefore not subject to the physiological influences of the surrounding tissues which normally determine the relative position and differentiation of new cells. Hence it grows as a new entity with its own blood and nerve supply which are adapted only to its growth. Wherever cancer cells grow the physiological stationary fully differentiated tissue is replaced not by any peculiar aggression of the tumor cells but by suppression due to the new actively growing tissue organization which is grafted onto the old stationary tissue organization

As the tumor problem is a problem of growth it can be solved only by a study of the laws which govern growth Many years ago Billroth stated that from the anatomical standpoint the conception of tumor should be rejected as we may recognize only tissue growths of simple or complicated types and should endeavor to trace their origin and fate as

such HOWARD A McKnight M D

W. I. C. C. T. W. C. - 1

Wright W M and Wolf C G L The Serological Diagnosis of Cancer Part I J Cancer Resea h

This article is a resume of the theoretical deductions leading to the discovery of the Fuchs serological test for the diagnosis of malignancy a careful laboratory investigation of the test possibilities for error and suggested improvements and chinical experience with 116 determinations in malignant

and non malignant conditions

If serum from a patient suffering from cancer is allowed to stand in contact with washed blood fibrin from a normal person it produces proteolytic splitting of the fibrin which is manifested by an in crease in the nitrogen content of the filtrate from the mixture. Normal fibrin is carefully separated washed ground to a powder and put up in 5 mgm sterile tubes. One tube of this is added to r c cm of the suspected cancer serum and incubated for twenty four hours. Trichloracetic and is then added the mixture filtered and the non protein nitrogen in the filtrate determined by the micro kjeldahl method. With cancer serum a very definite increase (4 to 5 times the control) in the non protein nitrogen is observed.

The rationale of the test is as follows

The Abderhalden test for pregnancy depends upon the detection in the blood serum of certain substances which cause increased proteolysis evidenced by tests for products of protein splitting. A

very loose analogy between the formation of the placenta and the development of malignant growths suggested to several investigators that the blood of cancerous persons might show similar changes A low percentage of successful diagnoses indicated merely that unknown adventitious factors super impose themselves and sometimes hide the sought for reacting substance A precipitin reaction with cancer and placenta extracts reacting with the corre sponding sera bad been obtained (anti erum for specific organs was obtained by immunization) Abderhalden believed that normal serum contains no ferment capable of splitting protein but when Stephan and Wohl using animal fibrin noted proteolysis Fuchs reasoned that proteolysis takes place when the fibrin is from another animal (het erologous) while sera and fibrin from the same ani mal (homologous) causes no proteolysis. In tests on cancer patients he found proteolysis when cancer serum was mixed with fibrin from a normal blood or cancer fibrin was mixed with normal serum but no reaction if the serum and fibrin came from the ame individual Tuberculosis serum also produces pro teolysis on normal fibrin but this can be checked against The authors report 116 examinations with this test

No cases disgnosed clinically as malignant gave a negative reaction but a positive reaction (roughly 25 per cent) was given by mi cellaneous conditions such as hemorrhoids enlarged prostate chronic appendictive.

The cases are not entirely proved cancers as fre

alone

Some of them gave positive reactions before treat ment and negative reactions after the insertion of radium

There is no advantage in using a larger amount of fibrin. The reaction follows Schutz's lav the amount of ferment action being proportional to the

square root of the time of the reaction

Other blood constituents than normal fibrin and man albumin and globulin gave no increased pro teolysis. Muscle tissue can be used but deteriorates in a few weeks whereas fibrin keeps for months

Alcohol titration (Grossman method) of the products of proteolysis is suggested as a substitute for micro k.jeldahl determinations

HARRY C SALTZSTEIN M D

kerner Samarina S Experimental Treatment of Carcinomatous Mice by Cytotherapy According to the Method of N Y Kouschtalow (Experimentelle Behandlun mit Carc noma affizierter Maeuse mettels Cytothe apie nach der Methode von Prof N Y Kouschtalow) G 1 k 930 ix 2 7

The author has found that by means of cyto therapy it is possible to destroy caranima in mice. The histological process of destruction of the carci noma cells is manifested by necrosis of the nuclei and Laryolysis followed by connective tissue proliferation into the previously carcinomatous areas. When

cytotherapy is used prophylactically transplanted carcinomata can no longer gain a foothold. If the inoculation of mouse carcinoma otherwise gives a positive result in too per cent of cases the morbidity after prophylactic cytotherapy is zero.

OTTO HERSCHAN (G)

#### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

D Hérelle The Phenomenon of Bacterlophag, and Its Biological Significance (Le phé omé d b ctert phag et 3 1g ificat on bi logiqu) B il i mêm S c i dê h 930 lvi 936

D Hérelle befere a that the bactersophage is destined to revolutionize bacteriology and the pathol of the pathol o

appeared in the intestinal tract a lytic principle hich possessed the property of destronjang and dis sol ing pathogenic bacteria. Subsequently he found that this phenomenon occurs not only in bacillary disentery, the disease he first stud ed but also in all of the intercuous di cases thus far studied by him or other workers in the same field namely choiced and the conditions and bubbonic player. In all of these conditions there appears during consalescence a bacteriophagic principle is buch has the power to destroy and dissolve the pathogenic bacteria concerned in the production of the infection.

Direct microscopic examination sho s that the process of destruction of the pathogenic organisms is a sudden bursting. The body of the bacterium see list little by little and suddenly ruptimes leaving nothing that i v sible. From the findings of vanous experiments. D Herelle concludes that I actemphage is in the form of copuscle about 10 millimicross in diameter and that it multiples ery rapidly at

the expense of bacteria

There is definite proof that the bacteriophagi corpusole acts on bacteria by means of a fement which it secrete. The secretion of a soluble ferment by an organism necessarily implies the existence of a metabolism in that organism. The bacteriophage is therefore a living virus a bacterial parasite. The fatal disease of bacteria caused by the bacteriophage is kno n as bacteriophages. The phenomenon of bacteriophagy is just another example of the general and vell recognize I biologic I phenomenon of paras istin.

Some bacteriophagic principles are specific Others ha e a group action. Some for example attack the bacillus coil bacillus disenterize and the other of colories while others attack the bacillus coil bacillus pestis and bacillus typbosus. They vary consider bis also in the intent wy of their action. Some are ather feeble and others are power full. Experince has shown that the bacteriophage does not make its appearance o by at the time if the infection From a fe days after b it its leaves present in the notestimal tract of all h ing be grown mollesces to man and multiplies at the e-or use of the bacillus coli. It is able to adapt itself to act as a parasite against bacterian which it was at first unable to attack. As it is power of adaptation varies considerably the principle of the timen with bac terrophage consists in injecting into a d-cased it leaved in a bacteriophage v hich has previously be come adapted to h ing as a pa-asite on the organi m which is the specific cause of the disease to be trated

In non matestical made of each as bubone plague and the septectmans and the septectmans and the septectmans are supported to the plague and the septectmans are complete up of himself and the septectman are complete up of himself and the septectman but the first at D H relic has been able in every case to isolate a bacteriophage from the diseased itsue buboes or blood at the onest of the ill ess indicates that the mechanism f cure shill be the same un er er instant

These obser ations tend to show that contr in to the the rise heretofer accepted recove vf in an infectious disease is due not to the production of immunity but to the action of a bate toplage it the limit of the control of a bate toplage it in limit of the control of a bate to the cede it. The poss birty of relapse shows that true immunity is established certaily not sooner than see erial days after the onset of convalescent

D Herelle describes the technique of tre timent sith bacter ophage and cities g of results of tai ed in bacillary disenter; cholera and bubonic plague fle has found that the act on of be teriophage often also ver and sometimes nil in cases with has e previously been treated with vaccines and anti-era fle therefore believes that bacteriophage should be used to the exclusion of other forms of biological therapy.

A TRO YR CARER MD

Fies Inger N Defensive Bacte lopexy in S pti caemi (La b ctén pe d dét d l p t cém ) P néd P 93 xx 9 9

It is generally believed that if e cure of septicemia is due to the de truction of the bacters. That this is not true is sho in by the virulence of pneum coct after defer exence in pneumon: the irule of the bacilli in typhoid carriers and the vitality of steptopocci in terminal metastatic ab cesses. The patient's cured but the bacte is are very much all e. Septicemia is cured not by destructin of the bacteria but by they trathom—be temporery.

Ba he topecy takes place in the blood troft uses. There are it oelements in the blood that fix b cherns—the globul in and the leucocytes. Bacteris argulumate around the platelets. The theory that lei coytes lestroy be teens is er o cous they only by the reticul endothelial cells. These cells f bacteris past as they fainett particles of dye. Bl cking the reticule endothelial cells. These cells f bacteris past as they fainett particles of dye. Bl cking the reticule endothelial system therefore increases the severity and d ration of septicemia.

After being fi ed the b cteria are excreted through the bile urine pancreatio fluid nd sal va

Between the blood capillary and the intercellular bile duct there are two kinds of cells. Kupffer a stell late cells and liver cells. Experiments carried out with dyes have shown that kupffer a stellate cells have a chromopeuse function and the liver cells a chromogogic function. Their function is the same with reference to bacteria. In experimental septicomia kupffer a stellate cells fill with bacteria which press into the bodies of the liver cells and from their fall into the lumma of the ducts without losing their virulence. This is why the bile is always septic. The same process takes place in the pancreas the parotic dands and the kidneys.

A curious form of fixation of bacteria is the intravenous form. Sometimes when philebitis develops the general symptoms decrease as if the bacteria had suddenly become fixed in the clot. Some times the septicamia is so severe that the fixation is not sufficient to arrest the course of the disease.

Bacteria may be fixed also by metastatic foci such as the periosteal abscesses of typhoid fever sub cutaneous or deep abscesses and turpentine ab

The initial stage of recovery from septicamia is therefore fixation of the bacteria. Mer their fixation the bacteria are destroyed or eliminated

AUDREY & MORGAN M D

Talice R \ Three Years of Pyrexotherapy with Treponema Hispanicum in Uruguay (Trous ans de pyr tothérape par le treponema hispanicum en Uruguay) Rev S d 111 de méd 1 de 1: 1930 1 555

The author believes that at the present time the best treatment for general puress is py revotherapy. The most satisfactory results are obtained from the inoculation of virtuent hactura. To date the only methods which have been found of value are the production of malaria and recurrent fever. However in 10 per cent of the cases the malaria has proved fatal. Recurrent fever is associated with less danger.

Tailes reports experience acquired with recurrent feer in Uruguay during the period from 1927 to 1929. The method was introduced at about the same time by Plant and Steiner Weyandt and Kirschbaum and Muhlens First attempts with moculation to cause recurrent fever were made with treponema dution; the agent of the African variety (hosy and Knapp)

The treponema hispanicum discovered by Sadi de Buen provokes a relatively mild disease. It is transmitted by a tick (ornithodurus marocanus) Following the encouraging results obtained by Brumpt of Paris it has been widely employed in Uruguay. Its use demands the close cooperation of a

parasitologist and a neurologist

The virus can be preserved by means of infected tucks. To insure infection of larvæ and chrysahses the ticks are passed at times over infected animals. The virus may be preserved in receptive animals such as guinea pigs rats mice rathbits monkeys cats and dogs. The technique of its use is described by Kicolle and Anderson. The organism is easily cultivated anaerobically in non-inactivated rabbit serum.

In clinical cases inoculations are made subcutaneously or intradermally with blood from infected animals. For conservation of the virulence man to man inoculations are advisable from time to time. The course of the experimental disease is mild and without mortality.

In general paresis the results have been quite good Of 122 patients 17 were able to resume their occu pations and 32 were greatly benefited. However 29 showed only transient improvement and 44 were not benefited.

In epilepsy the frequency of the attacks was reduced and in early cases presenting the posten cephalitic parkinsonian syndrome definite improve ment resulted

The numbers of cases of other conditions treated were too limited to justify conclusions

ALBERT F DE GROAT M D

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Hypochlo amia G M Curris C lif mia & West Med 930 XXX 1 625 Carot 2m H F M LER C 11 rnia & Vest Ved 93 XXXII 66 S lphæm gl binæm G A HARROP JR 2 d R L

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# SURGICAL TECHNIQUE

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xl 466

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### Antiseptic Surgery Treatment of Wounds and Infections

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J Med & Surg 1930 xlui 46r Vaccines their use in the control and cure of dicase R O CLOCK Med J & Rec 1930 CXXXII 218

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munication A T GLENNY But M J 1930 11 244 A case of suspected tularæmia in Spain P G Gracián Clin y lab 1930 X11 52

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### Anæsthesla

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Virginia M J 1930 xxvi 521
Respiration circulation and musculature during par cosis Studies of their hehavior and the possibilities of in fluencing them in man and animals H Franken Arch f Gynaek 1930 cxl 496

Anasthetic explosions K B Pinson Brit M J 1930 11 312

Studies of narcylen anæsthesia with the rehreather H

WIEVECKE W WIRTH and F KIRCHNER Schmerz 1930

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tomy F B RAMSEY and W D LITTLE Surg Gynec. & Obst 1930 li 352
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gynecology A Rova Orvosi hetil 1930 i 262

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WEINTROB Am J Surg 1930 IX 234 Sacral anaesthesia in hamorrhoidectomy W E SCHUL

Texas State J M 1030 TXVI 342 Epidural sacral and parasacral anæsthesia in surgery of the permeum J W SAVRE Virginia W Month 1930

lv11 384 Rectal narcosis with avertin C C GREER West Vir ginia M J 930 xxvi 538

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# Surgical Instruments and Apparatus

Chan es in the asepsis of paraphernalia for operation

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xxxvn sez prat 1135 The Reverdin needle and automatic carners A BASSET Bull et mêm Soc nat. de chir 1930 lvi 951



# PHYSICOCHEMICAL METHODS IN SURGERY

#### Roentgenology

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The effect of oe tg rays and rad um on the lf d ra of permatoz T F az J p J Obst & Gyne

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mentale 1030 lexxiv 170

The catalytic effect of methylene blue on the orygen con sumption of tumors and normal tissues E 5 G BARFON Exper M 1930 1: 447 Note on two cases of connective to sue navu

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STEWART Edinburgh VI J 1930 XX VI 497 A case of melanosi of Riehl probably of suprarenal on gin Marrin and Acuttera Arch de med emig y especial 1930 xi 145

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H & RASE NIELSEY and I WAGNER Hop tid toto 1 185

### General Bacterial Protozoan and Parasitic Infections

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PSittacious W W G Wichacula H H Permar and
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Fritzcosis a review W R Wirin Ses Orleans V & J 1030 letam 132

I ittagous observations concerning the experimental disease in parrots mice rabbits guinea pigs and monkeys M RIVERS G P BERRY and L I KHOADS J Am M Ass 1930 zev 5 9

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On then t d structue f th prarenal ie J P MGo av I'd b rgh M J 93 xxx 545 Th m leseth moe J S E I REUD E L QUEUR d t P W MUENCH Kli W hnschr 193 77

# Experimental Survery

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Gvn k 193 p 837 Sm eftic cy p bl ms in appli d s g ry E L Hu 7 New E land J Med 93 E 66 An lyzng the cot of petmortem ex minati Tun en 31 d Hop 193 xxxv 69

#### Medical Jurisp udence

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# International Abstract of Surgery

Supplementary to

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# CONTENTS

I Index of Abstracts of Current Literature		111 V 11	
11	Authors	VIII	
III	Abstracts of Current Literature	105 180	
IV	Bibliography of Current Literature	181 208	

Editorial Communications Should Be Sent to Franklin H Martin Editor 54 East Erie St. Chicago Ed torial and Business Offices 54 East Erie St Chicago Illinois U S A In Great Britain & Henrietta St. Covent Garden London W. C. 2



# CONTENTS-FEBRUARY, 1931

# ABSTRACTS OF CURRENT LITERATURE

105

106

RUDAUX and DURANTE Mycotic Septiciemia with

MARCHIND Tumor of the Septum Ludicum Pseudo

Suffern R. K. C. Kempf G. F. Zerfas, L. G. and Gilman, L. H. Meningococcic Meningitis. A Clinical Study of 144 Epidemic Cases

TRUISIER J and BOQUIEV 1 Meningeal Spiro chetosis Resulting from Infection of the linger by Contaminated Water

HESSE E The Surgical Treatment of True Glosso

11

113

Z [4

Cerebral I redominance

pharyn, eal Neural 1a

Spinal Cord and Its Coverings

bulbar Syndrome

SURGERY OF THE HEAD AND NECK

PATEY D H The Mixed Tumors of the Salivary

KENDALL A I and GIFFORD S R Trachoma and

LEVINE J Paralysis of an Extra Ocular Muscle Mter

GIFFORD S R and LAZAR N K Inclusion Bodies in Artificially Induced Conjunctivities

RICROFT B W The Non Magnetizable Metallic

Head

Glands Eve

Avitaminosis

Spinal Anaesthesia

Moore R T Two Cases of I pathelial Implantation Cyst of the Iris Summers B Cystuc Degeneration of the Return Comey M Unreco nized Retinoblastoms and Pseudortinoblastoms Report of Cases  Pharynx McKervix D Gradual Disthermy Destruction of the Faucial Tonsil  Neck Subating G Echinococcus Cyst of the Thyroid Moscincowity D The Nature of Graves Disease  Prattick G E and Visting J H The Results of Roentgen Therapy in Goster Based upon Observa tions in 40c Cases	106 106 106 100 107 107 07	LEVENOVIE J P and BRASSET W T Resection of the Iresacral Nerves in the Treatment of Cord Bladder Frehmunary Report Homeous J Adhesive Spinal Fachs meningitis  Peripheral Nerves  Vercetu G Automatic Reflexes of the Arms and Their Irradiation  Sympathetic Nerves  Jirasses A Surgery of the Sympathetic System  Blair D M Durr D and Briotiam J A The Automatic Result of Feriatrical Sympathetomy  ROLE N D The Chincal Results Following the Operation of Sympathetic Ramisection  Darketopolu D Twelf Lit & Cases of An ina Pector's Treated Surgically by Suppression of the Pressor Reflex	215 216 216 217 217
NORDLAND M The Langua as Related to Surgery of the Thyroid Based on an Anatomical Study. SARPER I Parathyroid Tumor and Chain es of the Bones Harpis R Granuloma Venereum General Discus sion with Report of a Case of Larguageal In volvement. SPRESS A and RIDER D L. Experimental Healin of	109	RAVEN F W and LEVENOVIII J R Section of the Sympathetic Perves of the Distal Part of the Colon and the Rectum in the Treatment of Hirschaptung's Disease and Certain Types of Constipation  SURGERY OF THE CHEST	
Bone After Parathy roidectomy	109		
SURGERY OF THE NERVOUS SYSTEM Brain and Its Covenings Cranial Nerves Riser and Soret. Studies of the Cerebral Circulation A Comparison of Techniques Direct Observa Ion with a Closed Carlo: Peaults Obtained with Debydration in Forty Eight Cons cuine Cases Refereex F L Epilepsy Due to an Arterovenous Aneuram of the Brain	111 110 110	Chest Wall and Breast  BLANCHERI T Primary Hypertrophic Tuberculosis of the Breast  TAYLOR H C JR The Eurology of Neoplasms of the Breast with Notes on Their Relation to Other Tumors of the Reproductive System  Trachea Lungs and Pleura  Prof T I Primary Carcinoma of the Trachea Anstron G Fyperiences with the Trendelenburg Operat on for Lulmona 3 Lint of sm	119 119 120 121

NESSON II O U It I Par by the Dasphragm b) Is I the he ac in the T aim to fi I tap he ry the ac at the T aim to fi I tap he ry the ac at P is t i B nch all t law in the T aim to fi I tap he ry the ac at P is t i B nch all t law in the T aim to fi I tap he ry the ac at P is t i B nch all t law in the T aim to fi I tap he ry the ac at P is t i B nch all t law in the T aim to fi I tap he ry the ac at P is t i B nch all t law in T i B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i i I B received in the Lu st he hi i I B received in the Lu st he hi i I B received in the Lu st he hi i I B received in the law is the C i I pa m at B received in the Lu st he hi i I B received in the Lu s	INTERNATIONAL AB	SITACI OF SURGERY
SURGERY OF THE ADDOMEN  Abdominal Wall and Pentoneum  CIABRUT R If minif Co t  Surset \ L Ext outs and Utlesto of the Surset \ L Ext outs and Utlesto of the Treatment of the P of the M of Treatment of	b) 1.1 f (the lh nc)  II 1x.1 Th Iu I ment   1 cples U d rlys g the T atm to f I t ap lm ry \text{ h a d} P'st t lB nch alf t lc  LLOUSSER I CI r I Bro h II tul  RE (DATSER I CI r I Bro h II tul  RE (DATSER I CI r I Bro h II tul  RE (DATSER I CI r I Bro h II tul  RE (DATSER I CI r I Bro h II tul  RE (DATSER I CI r I Bro h II tul  RE (DATSER I CI r I Bro h II tul  I syntamy C renome of th I u \times Study f 123  GOLTE L P m ry Carce man of th I u g  A Bro h P m ry Carce man of th I u g  A Bro h The T renome i the I renome i the Lu  System th M is ta east othe C tral  N System th M is ta east othe C tral  N System Thomas h F Spot too t P eumoth ra 14  SYMLES THOMPS N H F Spot too t P eumoth ra 15  Heart and Pericardium  PLHAN H Th I Re ta d Preg cy  LEOOPDagus and Med astinum  SIFIRET Ste ooks fth Cloophagus  15  LISTHA A The R tyceol ct of I rint [  LISTHA A The R tyceol ct of I rint [  LISTHA A The R tyceol ct of I rint [  LISTHA A The R tyceol ct of I rint [  LISTHA A The R tyceol ct of I rint [  LISTHA T T C cs f C I pam a 1  LIDHAT [ th Chooph gu Which W r  Op rated po S cc [ b] I y the liev r sky	INP OR OP THE 1 G to dD od 1 Ule 15 G tree d D od 1 Ule 15 G Tree d
Abdominal Wall and Pentoneum CLARRET R If mail Co I Seast \ L. Ext ouant and Utlanto of the S. d. k.d. d. t. i. nt. e.m. i. th. R.d. t. Teatm t. i. i. g. u. i. II m  U. E. I. I. I. I. U. III m  U. E. I. I. I. I. U. III m  U. E. I. I. I. I. U. III m  U. E. I.	•	loves N W a d Paragra D L Ob reati na no
Abdominal Wall and Pentoneum CLARRET R If mail Co I Seast \ L Ext outst and Utlanto of the S d kd d til nt e m th R d t Testim tilgu ill m  Use 1 I low Up Studes fil t is Op teel poof ig i iif m ill s D es the P d f m J ey 1 9 8 t D c m 3 9 7  G str Intestinal Tract  Dr	SURGERY OF THE ARDOMEN	Ch one Ch lecystatis with Special Ref re t
CABRUT R If mind Co t  Sensy 1 \ Lat to outs and Utless of the Sensy 1 \ Lat to outs and Utless outs \( Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to outs a dot of the Sensy 1 \) \( \text{Lat to		Tract n R l u n to P Op u e a d l t
Sensit \ L. Ext oual and Utilate of the S dk \ d dill nit c \ b is \ R \ d \ S \ dk \ d till nit c \ b is \ R \ d \ S \ dk \ d till nit \ c \ b is \ R \ d \ S \ dk \ d till nit \ c \ b is \ R \ d \ S \ dk \ d till nit \ c \ b is \ R \ d \ S \ dk \ d till nit \ c \ b is \ dk \ d \ dk \ dk \ dk \ dk \ dk \ dk		
S 9 7  G str Intestinal Tract  Dr & J B & a i B or & G I a ch L pri this Sple a list From the	Screen L. Extousat an Utleato of the School of the Linter on the Rd Linter on the Rd Linter of the Rd Linter of the Rd Linter of the Linter of	Following Chol cystect my 138 GUERRY LEG Reconstruct fth B l P sta with Sp ci l Ref en t Hepaticod ode o't my 58 Torcuse x M Recu of P Alte Op ra ton on the B l Duts 39
G str Intestinal Tract  Dr & J B & a B & or & V G & I a th & L D r the Sple n is 15 hr. Sple n is 16 hr. Sple n is 15 hr. Sple n is 16 hr. Spl		DETAKATS G. Lg to of the Til fth I'a re
Private R. The Rel of the Spile of S	G str Intestinal Tract	Termove P AC tht nth Phy 1 gy f
I NEW G D d I L C I P m t I G t c Ull Th I fleet f the Co st c) of th Det II J S F Y J M T A d HA RUMAY F M J B Th R tt f Operato G C C c d D d 1 Ull t A St t t cal Study f T t Y M I d DAL U D C Th R ult f G at o I ter stomy f t Ull th D od I m a d St m ch T the C b C T C T C T C T C T C T C T C T C T	Dr alBaib on 1 Gluth Lpn	Payer R L Th Rel t fth Spl nto Judi 14
IN LEY G B d I VCF pm ttG te Ulc Th lifect fibe Co st oof th Det Ulc Th lifect fibe Co st oof th Det Ul Th lifect fibe Co st oof th Det Ul Th lifect fibe Co st oof to Bat U D C Th R ult fG sto I ter stomy frU fth Dod mad St mch I RESEL J S Th Imm It Motify a dL te Res It fOp t sf G tre dD d Ulc GA LVOOD Th Imm dat Mt tlty dL t Re ults fOp t f 1 pt Ule Ga Doon J H Th Imm dat Wotly in Op to sfo C te dD d t Ulc dit  NAAL D A A Th O  Put y CD A A oot d th Hyd ulf m  Put y CD A A oot d th Hyd ulf m  43	Iyl cSph t 18	BLANKENHORN M \ The Clin c I S grafic ce of
Illy Style Tad Harmina Fills The Rit f Operato f Ch. C. G. t. c. d. D. d. i Ull. t. A. St. t. call Study f Tity Y. 1. d. St. t. call Study f Tity Y. 1. d. Mseellaneous Style Carbon Style To Carbon Style Carbon Sty	la LEY G B dI \ C F p m t lG t c Ulc Th I ffect f the Co st cy of th Det	Ivy \ C Phys 1 gc 1 D t rba ce In d t1
R It folgerates f. Ch. c. G. t. c. d. t. d. t. c. d. t. d. t. d. t. c. d. t. d. t	]] ] g	Transportant V Ba to D c 4
BAL U D C. Th. R ult. fG sto I ter stomy f t U f th D od mad St m ch I I I I I I I I I I I I I I I I I I I	R lt f Operato f Ch c G t c d D d I Ul t A Stttcal Study f	M scellaneous
ftUl fth Dod madStmch		GATE on S bphr c Absc 4
Rest I f Op 1 s f G tre d D d 1 Ulc  GA I VOOD Th Imm dat M t 1 ty d L t Re  ults f Op t f 1 pt Ulc  G 1 NON J II Th Imm d te Mot I by n Op  t o s f O C t d D d I Ulc d It  NAM E d No A K Th O d  Put y CK R A oc t d th llyd udf m	fr Ul fth Dod mad Stmch 19	CANADOLOGA
GAINOOD Th Imm dat MILING dLIRE SCHOSEREM THE HE CAMPAGE CHOSENER MET THE CAMPAGE CHOSENER CHOSENER MET THE CAMPAGE CHOSENER CHOS	Res lt fOp t sf G tre dD d l	Uterus
Gi BON J H Th Imm d te Mot liy in Op N MAK E d Ko A K Th O d Put 1 Ch g A oc t d th Hyd tudf m The LOS A C t d D d l Ule d It	GAE LOOD Th Imm dat M tlty dLt Re	s of th Ut My m
	GIBON JH The Immedite Worltsym Optos for tred Del Ule dit	N vak E d ko A k Th O d Ptut y Ch g A oc t d th Hyd tidf m

	Brry 3	NDEAU The Prognosis of the Low Cæsarean Section The Late Results	153
FAHLBUSCH O The Aschheim Zondek Reaction and the Indication for Operation for Chorionepitheli	Puer	rperium and Its Complications	
		WN T K The Incidence of Puerperal Infection	
Adnexal and Perinterine Conditions		Due to Anaerohic Streptococci	153
GELLER F C Cell Changes in the Ovary of the		zzó A Renewed Attempts at the Treatment of Puerperal Fever with Immune Serum	154
Sexually Mature White Mouse After Roentgen Irradiation	3 Misc	cellaneous	-
		TAROW A MONTGOMERY T L and BOLTON	
Sampson J A Postsalpingectomy Endometriosis (Endosalpingiosis) ra		W W The Calcium Partition in Pregnancy Parturition and the Toxemias	154
External Genitalia			
SCHNEIDER P Carcinoma of Barthol n s Glands 14	15	GENITO URINARY SURGERY	
KILLEGMAN S J Trichomonas Vaginalis Va unitis A	Adre	enal Kidney and Ureter	
Common Cause of Leucorrboea  Lower W E Vesicovaginal l'istula	SIRE	err A Contribution to Functional Lidney Diag	155
Miscellaneous		cm M The Morphological Bases of Renal In sufficiency	
CETRONI M B Menstrual Disturbances of Ovarian	GRAI	UHAN M The Anatomy of Renal Stasis	155
Origin KEENE F E and KIMBROUGH R A Endometriosis		PUS H C JR and THOMPSON G J Renal Tu berculosis	-
		MENTER F J FOORD A G and LEUTENEGGER	156
PETIT DUTAILLIS P The Repair After Healin of a Complete Tear of the Perineum Extending to the		C J Gonococcal Pyelonephritis	156
Middle Third of the Rectovaginal Septum		NGGREY E Grawitz Tumors	157
DANNREUTHER W. T. The Control of Morb dity and Mortality Following Pelvic Surgery A Review	Scac	OLL A J Three Cases of Carcinoma of the	-21
of 1 000 Consecutive Personal Cases		Kidney Atypical in Type  Accini P An Experimental Study of the	157
OBSTETRICS		ACCINI P An Experimental Study of the Change Produced by the Presence of a Forei n Body in the Ureter Remaining After Nephrec	
Pregnancy and Its Complications		tomy	158
ZONDER B The Technique of Testin for Pregnancy	Blad	ider Urethra and Pems	
hy Demonstrating the Hormone of the Anterior Lohe of the Hypophysis in the Urine I Accelera tion of the Reaction hy Sedimentation of the Hor		RMONTH J R and BRAASCH W F Resection of the Presacral Nerve in the Treatment of Cord Bladder Preliminary Report	115
mone II Detoxication of the Urine Improve			158
ment of the Test for Pre nancy  MACK H C The Aschheim Zondek Reaction for	COLL	ACHT F W Ves cal Diverticulum in the Female  of J A The Treatment of Vesical Papillomata	158
Pregnancy Results in 100 Cases	0 - 1		159
URDAN B E Ectopic Pregnancy SANTOS M Transporting Patients with the Cataclys	Gem	stal Organs	
mic Hæmorrbares of Ectopic Pregnancy		MG H H The Advantages of the Permeal	
Uzac Transportation by Health Service Aeroplane of Patients with the Cataclysmic Hæmorrhages of Ectopic Pregnancy		Route in the Treatment of Various Diseases of the Prostate	159
	2 Misc	cellaneous	
Lahor and Its Complications		KEERSMAECKER Pseudo-Urinary Patients  INA R and Rufz J B Indications for Deriva	160
SADLER E S DILLING W I and GERMELL A A	1	tion of Urine	160
Further Investigations into the Death of the Child Following the Induction of Labor by Means	BARI	BELLIOV P The Treatment of Acute Gonorrhoea	160
of Quinine		CERV OF THE BONES TOINTS MAGAS	P.C
AONTSEK B The Frequency of For eps Operations and the Fetal Mortality	SUK 3	GERY OF THE BONES JOINTS MUSCLI TENDONS	ES
DANFORTH W C and GREER R M An Analysis of	Coni	ditions of the Bones Joints Muscles Tendons I	Etc
BROUHA M The Prognosis of the Low Cæsarean	S\ap	PER I Parathyro d Tumor and Changes of the	
Brouha M The Prognosis of the Low Cæsarcan Section The Immediate Results			109

POMERANZ M M Rocatgen Ding 515 of Bone Tumors	162
PRISER J Tumors of Bo c	162
PRI USTER D B Pepair of Bo e n the Presence	103
of Aseptic Veer s he all ng from I ta tur s Tran plant t n an I Vascular Ob truction	162
FORENER C F The Syno all Flu 1: If alth a d	103
D sease	162
BLE CAE II Sport Injun s of the Jo ats	163
LLY L W Chrone Arthritis Its Cls. featio	103
It los and I' thol my with an Outlin of Its	
Rat o al Treatment	163
SICOTRA Humerus Varus	zf.
RIGLER L. G. Unr W. H. and HA SOV M. B.	
Lara ertebral Abscess an Early Roentg n Si n	
of Tubercul us Spon lyhtis	265
PAP L Doe ses of the Hip a Adults	165
BRAGARD F \ \ \ ew S gn f Men scus Ing ry I un	•••
damental of L amination of the kn e Jo nt	264
and the same and the same of the sent of the	•••
Surgery of the Bones Joints Muscles Tendons	Etc
Loo Itr S B A Study of the Ind Pesults of Syno ectomy of the Kn e	166
Mchitte ca L 5 a d Payer T C Th Orerst e	
T tm nt of Les ns of the Lower I stremities	
in Diabetes Mell t s	166
Rugge 1 C servi e Treatm nt in Srcl	
Tuburculos s f the Lower Extremuty	167
II no R A Th T tme tol Tuberculo sol the	
I ats of the Lower I trem ties by Operative	
Tu n	167
Lo Ga. ssi II The \ Op cats Te atm at of Tuber ulo Jo ts of the Lo er l'attent ues	
Tuber no jo is of the Lo er latter ties	167
Fractures and D slocati as	
SPEED K a 1 I in D I I vp rimental Heal g	
il e Mier I rathyr lect y	
	100
ALORE I II Principles fit T theat of Non-	160
	109
OFFIRE I The Op at 7 cm t of 11 b tual in the Shoulder	160
England W of the seath the database	
FREED I M p I oc es ath Head of th	70

# SNI of IV (h nu n th Head of th Femar Mt (mp) t Int cas lar I ractue of th N k Th L r bon N I mon ad Treat m ni

# SURGERY OF BLOOD AND LYMPH SYSTEMS

## Blood Vessels

100 1

ER I I I plup y Du to n A teno enous Yeurn m ith Brai BLAIR D W DLEE D ad Br on u J A Th Anat n c i R ult of P sarteral Sympath

Aystron G I p enc s with the T endelenburg Operation f I lim n ry Embol m LEWIS D Cogntal At no nous Fistulæ MCPREETERS II O Th Injection Treatment of STERN I L The Alcol of Ing to of Ne ve Roots to Thrombo Ingut Oblit rans

# Blood Transfusion

RUDALY and DURANTE Mycot c Sept zenia with Cerel ral Predominance

# SURGICAL TECHNIQUE

Operative Surgery and Techniq e Postoperative Treatment

BERCEANE SLATTA & d ALBULESCO Th Ongt of Lo toperati e Reactions-Leucocytos s Fe er and Arotamia -and the Pract cal Importance ! These Reactions in the Pro no is I Operative Results 74

Ant septic Surgery Treatment of Wounds and

Infections TIMES F H The B of monthage 11 Sun ry 174

#### Appesthesia

LEVINE I P rolys s I an Extra Ocular Muscl Uter Si mal Inasth sa David & C and Louise M Spl ach c inasthes 1 the Treatment I laralyt lleu II DENFELDT II Phenomena Accompany: Sp nal Anasth a

kie ve II O The Origin of Neu atroph c Ul ra Miter Sac I Injections Observations o the Theory of Trophic Aeries

75

75

# Surrical Instruments and Apparatus

LIRSON ER M Chang in th Aseps of Paraph naha I r Operat on

# PHYSICOCHEMICAL METHODS IN SURGERY

### Roentgenology

Pranter G E and VASTINE J H The R sults I Poents n Therapy in Got servations in 400 Cases Based upon Ob-

DISTRIA 1 The locate a Pictue of 1 f ration of the Th rac c (Esoph gus Grates F C Cll Cha ges in the O ary of th

S u By Mat re Mouse Mer R entg Irrad s tion 7.53

POMFR Z M M Ro ntg a Diagnos of Bone 162 TmB

P GREE L G LDE W H and HANSOY M B P ra tebral Absce an Larly Roentg n S gn IT bercul us Spondylit s

#### Miscellaneous

57

172

172

Mckenzie D Graiual Diathermy De tructi) the F sal Ton is

lot 15 Th T atme tof les | Pap || mata by Cy tosc p Death rmy

MISCELLANEOUS		General Bacterial Protozoan and Parasitic Infect	hon
Chrical Entities-General Physiological Condi	POYNTON F J and MONCRIDEF A Infective Granu lomata and Streptococcal Infection 17		
VALENTIN B Clinical Contributions on the Na of Malformations	ture 177	DEW H Some Complications of Hydatid Di ease	17
BAUMGARINER E A and JEWETT C H Trop Sprue Experience with Thirty Six Cases		Ductless Glands	
Sprue Experience with Thirty Six Cases 177  Leriche R and Fontaine R An Experimental Study of the Effect of Section of the Spiral Cord		COFFEX W B and HUMBER J D Extract of Adrenal Cortex Substance	17
on Arterial Pressure Its Application to Surg Shock and Traumatic Shock		EIDELSBERG J Endocrinopathies The Thyropitui tary Syndromes Diagnosis and Treatment	1,
BIE	LIOC	RAPHY	
Surgery of the Head and Neck		Genito Urinary Surgery	
Head	181	Adrenal Lidney and Ureter	19
Eye	181	Bladder Urethra and Penis	19
Ear Nose and Sinuses	182 182	Genital Organs Miscellaneous	19
Mouth	183	AKISCEMALICOUS	19
Pharynx	183	Surgery of the Bones Joints Muscles Tendons	
Neck.	183	Conditions of the Bones Joints Muscles Tendons	•
Surgery of the Nervous System		Ltc	o
Brain and Its Coverin s Cranial Nerves Spinal Cord and Its Coverings	184 184	Surgery of the Bones Joints Muscles Tendons Etc Fractures and Dislocations	20
Peripheral Nerves	185 185	Consequent the Disad and Townsh Contame	
Sympathetic Nerves Miscellaneous	185	Surgery of the Blood and Lymph Systema	
	,	Blood Vessels Blood Transfusion	20
Surgery of the Chest		Lymph Glands and Lymphatic Vessels	20.
Chest Wall and Breast	185 186	Miscellaneous	20.
Trachea Lungs and Pleura	186 180		
Heart and Pericardium Esophagus and Mediastinum,	186	Surgical Technique	
Miscellaneous	187	Operative Surgery and Technique Postoperative Treatment	20.
Surgery of the Abdomen		Antiseptic Surgery Treatment of Wounds and In	
Abdominal Wall and Peritoneum	187		20.
Gastro Intestinal Tract	187		200
Liver Gall Bladder Pancreas and Spleen Miscellaneous	190	Cargon and and apparents	
Miscenaneous	190	Physicochemical Methods in Surgery	
Gynecology		Roentgenology	206
Uterus	101	Radium	206
Adnexal and Periuterine Conditions External Genitalia	192	Miscellaneous	206
Miscellaneous	93		
	,,,	Miscellaneous	
Obstetrics			206
Pregnancy and Its Complications	194		207 207
Labor and Its Complications Puerperium and Its Complications	195 196	Surgical Pathology and Diagnosis	208
Newborn	196	Experimental Surgery	208
Miscellaneous	197	Hospitals Medical Educat on and History	208

# AUTHORS OF ARTICLES ABSTRACTED

Alb 5 144 Albee T H 60 74 Albulesco 174 Balf r D C 129 Barne to r L A 177 Rere and 174 Bigh m J \ 117 Bl nk nhorn W 1 14 Blenck II r61 Bloodgood J C 130 B lto W W 154 B Ito WW 154
Boon litt S B 166
Boq en Y 1 4
Braasch W F 115
Brag d K 65 Brandeau 153 Brouha M 153 Brown T k 133 Bro ne D 125 Il mpu II C Jr 156 Bud V G 123 Rusch M 155 C tarow A 154 C tro 1 M B 46 Chabrut R 1 7 C fley W B 79 Cohen M 06 Chabrut R 77
C filey W B 79
Cohen M c6
Da fo th W C 153
Dan el polu D 18
D n e ther W T
DA oy R 3
D d V C 3
D vison C 14 De ver J B 128 134 De her maecke 160 De Takáts G 139 De H 78 Dll g W J 15 DI tr. A 126 Duff D 117 Durant 11 Th ha dt L La na ut A 43 L d lsb rg J 79 Eloesse L 3 Fly L W 63 F hlbu ch O

Taly GB 28 I ay T 1 I lter R K 2 lig FA 20 Ing I A 20 Inney J M T 128 Fonta e R 177 Fori A G 156 I kne C I 62 Fraser J 162 Fremont Smith V 1 1 Freund F 120 G tewood 13 14
Geller F C. 143
Genmell A A 52
G shon Cohe J 132 G shon Cohe J 13x
G bbon J II 130
Gifford S R 1 106
Gifford S R 1 106
Gifford L H 13
Golt E V 124
Grauhan M 155
Gn 1 R W 153 Gu rry LeG 138
Had nf ldt H 74
Hägst m P 26 Hagst on P 26
II rahan E M Jr 128
II nso M B 65
II ra R 109
II tw H J A 3
Hazeltine M 1 132 Hese F 114
Hobs I A 167
Hohlb um ] 116 Holib um J 116
Holiman E
Horsiey J S
Horw tz W 1 24
H mber J D 179
Lvy A C 1 8 40
Jewett C H 77
Ji 4 ek A 7 John J S 1 9 John S N W 137 Judd F S 3 he er L K mpf & T 47 K mpi G z Kumbrough P 1 147 Kirs h I M 175 kleegman S J 45 klei II D 75

K II A K 43 K tsek B 53 Lah y F H 138 László Á 154 Laszio A 15 Learmonth I R 15 16 Lench K 177 Le man I 123 L ten gge C J Le e J of Lewis D 172 Lju gg n l 157 Lo Gra so H 167 Lo Gra so H 107 Loring W 32 Lower W 1 146 W ck H C 150 W ckey W 1 157 W cha d 12 Mck nzie D 07 McPhe ters II O 172 Miller R II 137
Mo n F 1 7
Mo lona R 60
Mo c eff 1 178
Montgom ry T I
Moo k I 100 M schoow tz 1 107 N cotra 6s N cotra 64 No dl d M 108 N ak I 143 Nystrom G 121 O tiker L 169 P lmer D L 37 Pap L 16 Prm nter F J 156 P tey D H t S i yn RL 14 I yn R L 14

1 hm II 52

1 tit Dutail I 2 43

1f hl r G I 1 7

1h m st D B 162

1 raccon 1 158

1 m m W W 62

1 ynto I J 178

Pratt T C 66

I r to 58 Ir to 58 Rankin F W 136

keiche t T L 111

Rid + D. L. Redr L. C. 6 Ri R Her A 167 R vle N D 17 Rudaux `~ Ruiz J B 160 Rv rolt B W 106 Sah tun G 07 SdirES 52 Sampson J A Sa tos J V Sch cht F W 158 Schne de P 145 Sch essl M 14 Sch II A I 47 Schil A J 57
Seiff t 5
Selle G 134
Slat na 74
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# INTERNATIONAL ABSTRACT OF SURGERY

FEBRUARY 1931

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

# HEAD

Pates D H The Mixed Tumors of the Salivary Glands Br t J Surg 1930 x 11 41

In his introduction to a review of fifty five cases of mixed tumors of the salivary glands. Patey discusses the problems of terminology and histological charac tensities which appear to have been the main obstacles to a proper understanding of these neoplasms. His study dealt with the bistological appearance and clinical course of the tumors and the relation of the bistological structure to the clinical manifestations.

Histologically, the tumors are of four types all very cellular. The typical group show adenomatous formations and myxomatous tissue. Those of another group are poorly differentiated tumors to which the term sarcomatous has been applied. Those of a third group are well differentiated tumors which have been described as adenomatous. Those of a fourth group show irregularity of cell structure and nu lear channes.

It is believed that these mixed tumors of the sal ivary glands have an epithelial origin as all of the varieties are made up of the same types of cells many of the cells are distended by a granular secretion suggesting their origin from an epithelial secreting organ and many investigators believe that the so called cartilage deposits formerly thought to be present in these tumors are fibrillar condensations of my vomatous tissue which is sult in a pseudocapsular art nement around the cells.

The region involved in the fifty five cases reviewed was the parotid gland in thirty eight cases the sub-mavillary gland in six cases the palatic in five cases and other regions such as the lip the angle of the mouth the face the tongue and the suilingual gland in five cases. In the report of one case the location of the tumor was not stated. Recurrence developed eleven times in the parotid gland once in the sub-mavillary gland once in the palatic and once in the sub-ingual gland. In one of the cases with involvement of the parotid gland a recurrence appeared.

after nineteen years. No time limit of iliability to recurrence could be set. Parotid tumors recur

more frequently than the others

Of twenty four cases of typical tumors recurrence is known to have developed in only four Seven of the patients could not be traced. Of nine cases of tumor of the poorly differentiated type a recurrence developed in one. Of six cases of tumor of the well differentiated type a recurrence is known to have developed in three. Two of the patients with this type of tumor could not be traced. Of eight cases of the poorly differentiated type showing irregularity of cell structure and nuclear changes a recurrence developed in five.

The author attributes recurrences to seedling nod ules present in the capsule which are not removed at operation and to the tendency of the salivary glands to develop tumors. The parallelism between a high degree of cell differentiation and a tendency toward multiple tumor formation is cited to show that the apparent recurrences are not true pathological recurrences. Of eleven recurrences studied four were encapsulated and seven infiltrating. Recurrence of the militrating type have a less favorable prognosis than the others. There is no evidence of a change of histological type in the recurrences.

The treatment recommended by the author is a combination of surgery and irradiation with radium

CLARENCE V BATEMAN M D

#### EYE

Kendall A I and Gifford S R Trachoma and Asitaminosis 1rch Ophth 1930 iv 322

While the bacterium granulosis was found by Noguch and others to be a cause of trachoma it is believed by many that such factors as dust flies and vitamin deficiency are contributory causes. The authors conclude from experiments on rats that a lack of Vitamin A is not essential for tracboma in fection. However, they do not wish their findings to be construed as disproving the theory that it may be a contributory cause. Lesure L McCov M D

Levine J P ralysis of an Ext a Ocular Viu le Afte Spinal Arresthesi 1 / Ophil 193 1

I olloving a review of the literature on paralisis of the ocular muscles after spinal anosthe a Levine reports a case in which operation performed on the gall bladder under spinal anæstliesia induced with procaine l'idrocl loride as foll vel by garalysis of the right external rectus. Convalescence was uneventful for three day after the operat on but on the fourth day diplopia began. The paraly 1 as di covered after the patient left the hospital There was no history of squint A slight refractive error was found in both eyes. The isual feld were nor mal Wassermann tests of the bl d and pinal fluid were negative. There vas no loss of weight. The general health vas good. The eye vas evammed at veekly interval but vas gi en no treatment. Meer nine eeks the paralysis began to dimi 1 h Lighteen weeks after its onset it had completely di appeared LI IE L McCor M D

Gifford S R and La r N k Inclu ton Bodies In Artificially Induced Conjunctivitis 1 d 468

By producing conjuncti itis in animals with two chemical and an organism obtained from a source independent of trachoma and inclusion blenor rhoa the authors were able to obtain m terial showing typical inclusion bodes. The inclusions produced by the three agents used vere identic lin form and staining reactions. In the authors opinion the fact that such inclusions vere produced by chem ical agents is proof that they do not represent de generated bacteria as as suggested by Bengston and others

The inclusions were identical in form and staining reactions with those found in trachoma and inclus on blenorrhoa While they ere not as numerous as in some cases of the latter condition they were

no more difficult to find than in trichoma Gifford and Lazar believe it possible to conclude from the work only that such inclusions are produced by inflammation of the conjunctiva with swelling and lymphoid hyperplasia. This would explain their occ rrence in trachoma and inclusion blenorrhoea without the assumption that they have a relation to a viru Accordingly the presence or absence of inclusion bodies appears to be of no im portance in the etiology or diagnosis of trachoma I E LIE L McCoy MD

Rycroft B W Non Mag setizable Metallie For eign Bodie of the Cornea ith the Report of a Case B & J Ophth 93 x1 5

The author cites a case in which multiple non magnetic foreign bodies vere blo n onto the cornex by an explosion of solder Sht lamp examination revealed that the foreign material lay in the corneal epithelium and the superficial layers of the suh stantia propria but had not penetrated Descemet s membrane

In the treatment it i as decided to allo v second rv ulcerat on to occur but when at the e d of fourteen weeks only a few particles had been extruded it was decided to e foliate the corneal epithelium. The cornea was loucled frequently with 4 per cent cocame and allo ed to dry so that it was uniformly opaque The epithel um vas then denuded The fact that o ly a few particles vere removed indicated a marked cohe son between the cornea and the metal Six weeks later the eyes vere quieter the patient vas able to resume vork and the metallic particles were fewer GLORGE P MC AULIER M D

Moor R F To Cases of Epithel | Implant tton Cyst of ti el ts I' i J Oplik 193 11 496

The author reports two cases of epithelial impl n tation cysts in the iris which were operated upon s c cessfully 1th restoration of normal vi on In both there bad been a perforation of the cornea with inclusion of an evel sh in the iris Such eyes are rritable and inclined to flash easily on examination. At the site of the cyst there i first noticed a voolly ppear ance of the 1715 with Leratitis It 1 not kno n by the author whether such cysts occur without the inclu sion of an eyelash G ORCE R MCAULIFF M D

Samuels B Cy tic Deg nerati n of the R tin 1 / Opth 93

Cystic degeneration of the retina occurs in practically every pathological condition of the eye The cavities may be classified as follows

s locord ng to location ith reference to (a) the optic nerve (b) the mucular region and (c) the reti nal layers-internal nuclear layer external ple form layer external nuclear layer and ner e fiber layer 2 According to ocular lesions (a) detachment of the retina (b) glaucoma (c) diseases of the blood vessels (d) pap llordema (e) 1 idocyclitis (f) end ophthalmiti and (e) tumors of the choroid

The causes are d sturbances of the circulation due to papilla dem glaucoma obstruction of the central

vein or to ins

Clen M

The cavety formation may occur vithout d ten tion from simple death of the cells or 1 h distent on as the result of pressure atrophy

Old cysts are usually filled with clear fluid and

recent cysts 1 1th a highly albuminous fluid In some instances the cysts contain red blood cells Pse docysts are spaces occupied by fat

LESLIE L McCoy M D

Unrecognized Retinobla t ma and

l eudoretin bla tom Rp t f Ca es t h Opt 11 93 1 363 In the case of retinoblastoma reported by the au thor the bistory v as of little aid in the d agnosi and

the acute manifestations prevented observation of the condition of the vitreous chamber Necros 18 a characteristic feature of retinoblastoma Some au thorities believe that it liberates torins caus og irido cyclitis others that the acute condit on 1 due to local recurrence of the growth In the author's case

the question arose as to whether vaccination three days hefore the onset of the eye condition had any relationship to the latter The diagnosis of retino hlastoma was suggested by hæmorrhage in the aqueous

The author's case of pseudoretinoblastoma was that of a child three months old The clinical mani festations in the eye were typical of retinoblastoma but the microscopic diagnosis was plastic cyclitis with sequelæ Cyclitis in infants is generally of infec tious origin but in this case the source of the infec tion was obscure. It was impossible positively to exclude retinoblastoma but as pseudoretinoblastoma would have resulted in phthisis bulbi with complica tions enucleation was necessary whichever condition was present LESLIE L McCoy M D

# PHARYNX

McKenzle D Gradual Diathermy Destruction of the Faucial Tonsils J Larringol & Otol 1030 xlv 686

The diathermy method of tonsil destruction de mands considerable skill and attention to detail hut as it makes much fewer demands on the patient's courage and endurance than the ordinary tonsil lectomy it will probably become a popular method It is a satisfactory procedure for dealing with the tonsils of that large group of per ons who at the present time prefer to endure their symptoms rather than run the risks and suhmit to the discomforts of the ordinary operation JAMES C BRASWELL M D

# NECK

Echinococcus Cyst of the Thyroid Sahatini G (Cisti da echinococco della tiroide) R forma med 1930 xlv1 1357

A patient twenty one years of age was sent for operation with a diagnosis of cystic goiter He came from a region where goiter is endemic Operation showed a cyst containing about thirty hydatid vesi cles mixed with pus The latter explained the pain which the patient had suffered and the rapid growth of the eyst at first Firm adhesions caused by the suppuration necessitated marsupialization patient recovered completely

AUDREY G MORGAN M D

Moscheowitz E The Nature of Graves Disease Arch Int Med 1030 xlvs 610

The author regards Graves disease as a syndrome of disorders with a history extending over a long period of time which is characterized by a sensitive emotional neuropathic personality often shows familial and hereditary tendencies and is strongly influenced by environment. It may pass through various stages such as the formes frustes and hasedoid stages

There is no characteristic physical make up While in some cases there may be a thymicolym phatic constitution the thymus gland does not acti

vate the thyroid gland and the thyroid does not activate the thy mus as is evident from the frequent occurrence of persistent thymus without Graves di ea e and of Graves disease without persistent themus

Undoubtedly the basic exciting factor is fear. The changes in the thy rold are the result not the cause of the disease and are probably due to the influence

of the nervous system

Graves disease is more common in females than in males and occurs most often after puherty. It is most frequent in races of high emotional develop ment

The diagnosis cannot be based on any single sign or test. In the treatment numerous factors must be considered including the constitution the exciting psychic insult and the degree of hyperthyroidism as indicated by the basal metabolic rate. Otherwise no method will give satisfactory results

After reduction of the metabolism by thyroidec tomy the adjustment of the patient to her environ ment and stabilization of her personality remain to he accomplished W O JOUNSON M D

Pfahler G E and Vastine J H The Results of Roentgen Therapy in Golter Based upon Observations in 400 Cases 4m J Roentgenol 1930 7711 395

The 400 cases reviewed by the authors included 13 cases of simple colloid or non toxic goiter 3 of the non toxic hyperplastic goiter of adolescence 238 of the toxic hyperplastic or evophthalmic type of gotter 26 of non toxic adenoma 92 of toxic ade noma 2 of non suppurative thyroiditis and 6 of carcinoma of the thyroid The 13 cases of simple goiter were selected from 145 cases referred for irradiation because they had failed to yield to medical treatment or the patient refused operation In 10 of them good results with disappearance of the goster were obtained Of the 3 cases of non toxic hyperplastic adolescent goiter the enlargement of the gland disappeared in all

The cases of exophthalmic goiter are tabulated according to the severity of the thyrotoxicosis the duration of the symptoms before treatment and its relation to the results the average number of treat ments given and the permanency of the results in cured or benefited cases In 58 3 per cent of this group a definite cure for an average of over six years was obtained and in 28 3 per cent there was marked improvement. In 18 cases an operation was per formed subsequently In 10 of the latter there had been no improvement after an average of 4 roentgen treatments in 2 a post irradiation recurrence de veloped and in 4 which were inoperable in the he ginning the condition was sufficiently benefited by roentgen therapy and medical supervision to make operative treatment possible. Nineteen patients with exophthalmic goiter were suffering from post operative recurrence Seven of these were cured 8 markedly benefited and 4 not henefited Ten de veloped telangiectases and 4 subsequently had a

metabolic rate lower than normal Nineteen pa tients have died since the treatments were given but the deaths of only 6 of them were attributed to hyperthyroidi m Those who died from hyper thyroid sm were in a critical state of toxicosis, they failed to respond to the irrad ation and succumbed before more than 1 series of from 1 to 3 treatments could be given Two of them were suffering from a postoperati e recurrence The response to irradia tion and the relation of the gain in weight to the decrease in the pulse rate and the metabolic rate are sho n in a table Another table compares the drop in the basal metabolic rate during roentgen ther p) in the authors cases ith the drop in the basal metabolism in 100 cases treated surgically by Lahes

Of the cases of non toxic ade oma only those with small tumors vere selected for irradiation. For the others surgery as considered preferable. In practically all of the irradiate I cases the adenomata were given localized doses through single portals. In over 56 per cent of the cases there vas complete dis appearance of the adenoma to palpation for an a erage of soven years and in 26 per cent the size of the tumor was greatly decreased and the goster

became almost invisible

The eases of toxic adenoma treated by roentgen therapy are tabulated in the same v av as the eases of exophthalmie goiter In this group 553 per cent of the patients 1 ore eured and 36 5 per cent 1 ere markedly benefted is a rule the goster was greatly decreased but frequently it did not disappear com pletely Seven eases subsequently came to opera I've of them had failed to respond to the arrad tion. In the 5 others there had been marked relief of the toxic symptoms but the thyroid hyper trophy had persisted and e used pressure symptoms Three eases vere postoper tive recurrences of these a eu e vas obtained in r marked improvement in I and no improvement in I Tiel e of the pa tients died but only 3 of the deaths could be at tributed to the goter. Four of the patients le veloned telang ectases

Of the 2 cases of non suppurative thyroiditis I was apparently cured two veeks after a single irra d atto and the other after a more prolonged course

of treatment

The autho s discuss also 12 eases of sub ternal goite which they treated with the roentgen rays Six ere of the exophthalmic variety Disappear ance of the corte as btained in s

Of 3 cases in which thymic enlargement was definitely sho in by roentgen examination 21 were cured a d 2 greatly imp ed by 1 rad ation of the anterior med a tinum and thyr id region

In 8 c ses the s multaneou presence of utorine fib ids was recognized. In 6 of the e which we e treated 1th th roentgen rays the irradiation vas follo ed by dis ppea ance of ra marked decrease in the size of the tumors

The roentgen technique is described at some length The impo tance of eliminating as ociated foct of infection is emphasi ed Refere ce is made

to the medical treatment high should accompany the irradiation and to the possible danger of the adm nistration of iodine especially in cases of to c adenoma \ table sho s that the results of roentgen therapy in the authors eases of hyperthyro d m s ere very similar to the results reported by others

In summarizing their findings, the authors state that 57 5 per cent of their patients with hyperthy roidism vere cured 305 per cent vere markedly benefted and 12 per cent e e benefited only

slightly or not at all

They conclude from their own observations and those of others that roe tgen therapy offers as good prospects of cure or marked improvement as are offered by any other method but that in cases with pre sure or embarrassment of resp ation su gery is indicated In non toxic cases surgical or medical treatment is to be recommended depending upon the type When med cal treatment fail and surgery is refused in non to c cases se eral small series of arradiations may be g en with little danger of impairing the function of the gland

ADOLPH HARTU G M D

No dland M Th Larynx Rel t d to Surg rs of the Thyr ld Based on an An t mleal Study 6 Ob 1 93 I 449 S re Gs

Careful dissections of the laryngeal and thyr id regions were made to determine accurately the dis tribution and relations of the super r laryngeal nerve and the anat mical relations bet reen the re eurrent lary ngeal ner e and the 1 ferior thy roid ar ters on each side. Nineteen dis ections we e made on lars ages and thirts one on the thyro d and peri

thyro d reg ons

The usual teaching today 1 that the superior la ryngeal nerve is sensory to the mucous membrane of the larvax through its i ternal branch and motor to the enc thyroid muscle through it external br nch Recent rite s di agree s me hat The author al o di agree In eighteen of his nineteen dissect ons of the laryny he found that the interary teno d mu cle (adduct r of the posterior portions of the vocal cord ) s as inner ated e cl sively by the intern l branches of the super or I ryngeal nerves In only one specimen did this muscle receive branches from both the internal br nch of the superior laryngeal nerves and the recurrent laryngeal nerves I three spec mens there vas an anastomotic twig betveen the intern I br nch of the supe or laryngeal a d recutre t laryngeal nerve The ext rnal branch of each supers r laryngeal nerve was d stributed mainly to the correspond; g cr cothyro d muscl (elongato s and te so s of the voc 1 cord )

The dissection to dete mine the relation of the super or laryngeaf nerve showed that this nerve ari es from the ganglion node um f the vagus and e urses parallel with a d elose to the super or thy roid artery

The recurrent lary ngeal nerve va found to ascend alo g a path a little fa ther f om the tr ch o œso phageal groove than 1 usually st ted

# SURGERY OF THE CHEST

### CHEST WALL AND BREAST

Biancheri T Primary Hypertrophic Tuberculosis of the Brenst (Tubercolo i primitiva pertrofica della mammella mul obre) Rass gia ini rna di di n e lerap 1930 vi 481

Biancheri reports a case of hypertrophic tubercu loss of the breast without arillary adenopathy in a phthisical looking woman twenty seven years old who had no other recognizable focus of tuberculous infection. Ambutation of the breast resulted in cure

From a review of the literature the author concludes that the disease is quite rare that it is much more common in women than in men that it occurs most frequently during the period of sexual activity and that pregnancy lactation inflammation of the breast trauma and heredity favor its development. It must be differentiated from non specific inflammatory processes and carrinoma

ANTHONY R CAMERO M D

Taylor II C Jr The Etiology of Neoplasms of the Breast with Notes on Their Relation to Other Tumors of the Reproductive System Arch Surg 1930 xvi 412 597

The author deals at great length with the theory that a functional disturbance of the physiological relationship between the ovary and the breast is an important factor in the genesis of breast tumors

The stimulus which normally produces physic logical proliferation in the breast is an ovarian hor To this internal secretion the hreast cell is specifically responsive throughout life. The earliest evidence of its response is noted in the newhorn in fant whose breasts show an activity somewhat simi lar to that of the maternal breasts At puherty breast growth precedes the appearance of the menses by several years showing that it i due not to stimulation from the follicle or the corpus luteum but to stimulation from the ovary During the men strual cycle there is increased activity in the breast associated with an increase in the ovarian hormone in the blood. In relation to pregnancy breast activity shows 2 phases a proliferative active phase due to placental stimulation and a secretory passive phase occurring after parturition. The lactation period may be regarded as a period of physiological cellular degeneration or beginning in volution At the menopause the cessation of ovarian activity is accompanied by gradual atrophy in the parenchyma of the breast

Co ordinated with the glandular changes under these physiological conditions there are histological proliferations which result from the same intrinsic causes After cessation of any proliferative stimulus evidence of secretory activity appears in the breast Round cell infiltration which accompanies secretion is to be regarded as a physiological resorptive mechanism

This changing picture of the structure of the breast is the normal physiological response of the breast parenchyma to the ovarian hormone

Some of the phases of the more or less normal states of breast proliferation differ only slightly from those of certain neophastic processes. There is considerable evidence that practically all varieties of tumor of the breast are dependent upon abnormal variants of the physiological endocrine states that normally produce breast growth. Indeed special forms of tumors tend to be associated with particular

types of endocrine disorders

Fibro adenoma Tibro adenoma appears to occur typically in the breasts of women with a generally underdeveloped reproductive system and under conditions in the body which are somewhat similar to those existing at the time of hreast development at puherty. This observation is consistent with the highly organic character of the histological structure of the tumor and its frequent rather faithful repro duction of the normal gland Moreover it supports the view that fibro adenoma is derived from previ ously undeveloped cell rests. In support of the helief that women of the fibro adenoma group are backward in development and suffering from some form of glandular derangement are the facts that the great majority are unmarried few have horne children of the e who have borne children few have nursed them there is often a history of abnormality of menstruation and premenstrual breast pain and dismenorrhoea from the time of puberty acquired pelvic disease is infrequent but the thyroid gland is often slightly enlarged the breasts are small and erect and have small nipples and areolæ and the women are slender and usually a little under weight

Chronic mastitis This condition is a secondary proliferative process occurring in involuting breasts under the influence of pregular declining ovarian activity It appears typically in women approaching the menopause but also in younger women with disturbances of ovarian function According to McFarland the cysts are evidence of incomplete involution after lactation by pertrophy In Cheatle's opinion the essential feature of the disease is hyper plasm The majority of women with chronic mas titis are married and have borne children. The fact that most of them were able to nurse their children indicates that formerly the breasts were normal Dysmenorrheea is rare in cases of chronic mastitis but acquired pelvic disease is frequent Premenstru al breast pain is unusual in older women but fairly frequent in younger ones Thyroid enlargement is unusual The breasts are usually pendulous and

have large nipples and areolæ. The body weight tends to be slightly above normal and frequently there has been a recent increase in weight

Punfil not les Painful nodules constitute a dis-tinct pathological condition but the localized nodules are discult to differentiate from fibro adenoma and the diffuse nodules are difficult to differentiate from chronic mastitis The f rmation of painful nodules is characterize 1 13 prohieration in the period of full maturity in which involutio al changes are not pronunent han rule painful n lules occur in young women About one half f the sub jects has a horne children. Their success in nursing has been ariable Unformal menstruation of the acquired type and dysmenorth ca are fairly com mon while premenstrual breast pain acquired nel ic disease and enlargement of the thy rold are extremely f equent. The shape of the breast the boly form

and the weight are not characters tie If I gua t tu to The conclusions dra n by the author from a stuly of 271 cases of breast growths pertain onl to the origin to tumors in general and not to the cause of malignancy in particul r since practically all of the anomalies f und ere about equally freq ent in the be ign and malignant series In spite of many eservatio a laylor presents evidence that ovarian dysfunction a concerned in the production of cancers of the breast. The greater predisposition f unma ried women to mal grane of the b east in I cate that inflammators conditions incident to the puer e ium are of the cause. The lo r fertil ty of v men ith cancer is suggestive of relatively frequent functional pelvic abnormality Failure to nurse successfully 1 high has been suggested s a caus of carcinom of the beast 1 probably d c to an internal factor connected with the abnormal rep duetive system \ large percent age of ca cinomat of the breast occur at the time of the me pau e h n abno mal stimulati n of the brea the the vary my beass med Young somen with ennecr of the bre st usually give a hi t ry of ecent change in the type of the menstrual periods indicating change in the canditi n of the ovane In lder some the malgnancy may be the result of a gr dual tran format n f abnormal enthebal tissu's hich beg n at the tim of the menopause The fact that dysme rrhota is of moderate lie quenc in you ge om n ith cancer of the breast dicates that s me of the early cancers may have be a produced ander the same conditions as those under hich the adenomata at s In carcin ma of the bre st premen trual breast pan ; frequently a recently cour d symptom and there is ften a hist ry fa qu d pely c d ase or a gynecolog cal oper tion. The facts uggest that abn rmal pro-I feration of the breast may ometimes d pe d on a di tu bance of arian function ca sed by pel ic inflammation or co gestion The frequency of asso ciated abnormal ty of the thyroid gi nd sugge ts the existence of a common st mulu product g ab normalities in the thyroid a d mammary gland Cancer occurs in all types of bre ats-in younger

women under conditions similar to those f bro adenoma develop and in older women under condits ns similar to those of chronic mastiti The body e ght in cases of ca cinoma of the breast below the normal in the early age group and above the normal in the late age group In this respect

also cases of carcinoma resemble cases of fibroadenoma and chronic mastit s

I athologically the various forms of tumors of the breast have their c unterparts in tumors of the uterus thyro d ovary and prostate Eti logically tumors of the breast including carcinoma are closely related to those of the endometrium ther d and ovary are somewhat allied to myomata of the uterus and are in a way equi alent to tumors of the prostate

From his study of the literature and his own cases the author conclude that a stimulus causi g the formation of a neoplasm must be of the same type as that to a buch the particular t sue is biologically best adapted to respond with proliteration. If this theory is correct h rmonal influences are effective in producing hypertr phy hyperplasia and neo I DA IFL WILL MS M D plasms of the breast

# TRACHEA LUNGS AND PLEURA Figi F A Primary Carein ma of th T ch

t / O/ 1 3 g 1 93 446 Although malignant tume s of the larvay are freque tly encountered prim ry ca ci ma of the trachea i rare Moreo e in the majority f case such les ns are not recog uzed until they are s far ad anced that treatment is of little if ny a ail len case of prim ry c reinoma of the trache in which the patient rema ed ell for more thin a year are recorded a the literature. Figureports

such a case and a oth is presenting the condition hich vere seen in the Mayo Clin c The stat ties cited by different I ryngolog to t c mp re the frequency of malgna t t mors of the

I ran ith that f primary earc noma f the trachea ty considerably Since 918 appr imately 470 c ses f ca cinoma f the la yn and 5 cases of pamary ca cinoma of the trache he be a seen at the Mayo Clin c 1 im ry ci cinom f the tracher is obser ed mo e fr que the in m les than in females but 3 of the 5 patients seen in the Ch c

ere women The sympt ms of m lign nt tum r f the trachea may des lop ins diously or appear abruptly a companying or follo ing an icute i fecti n of the upper part of the re piratory t ct In s me ca e the primary sympt m: a toking sensation n the trachea and in the dy pnoe In a fe 1 stance ho rseness has bee one of the first symptoms officed by the pat ent but in the majo ity of cases t de velops lite in the di ase if at all Lo of weight may be an e rly sign i ca es n h ch the le n is situ ted on the po ter or all a d has invaded the ces ph gus causin dy phag a Ge er lly howe er los of e ght occurs l t

The clinical course of the disease varies with the type of tumor its activity and its situation. The moset is usually insidious and without pain. Dysp near becomes progressively more severe and even tually results in sufficiation inless surgical intervention is successful in relieving it. From the onset of the dyspined in a case of actively growing malignant tumor failure is rapid and progressive Death is usually due to slow suffocation pneumonia or metastasis to adjacent organs.

Physical abnormalities in cases of primary mathgrant tumor of the trachea are often lacking Because of the rapid development of the local lesion the general condition is good as a rule until late in the course of the disease. Paraly sis of the vocal cords and the presence of metastatic lymph nodes in the neck indicate an advanced stage of the disease. The lesion in the trachea often appears as a sessile fun ating mass springing from the literal or posterior wall usually in the upper or lower third

On account of the difference in terminolo, y and the lack of microscopic data many cases of primary tracheal carcinoma reported in the literature are difficult to classify histologically. Epitheliomata arc said to be comparatively, rare but of the 5 tumors from which specimens were examined in the Clinic 3 were squamous celled epitheliomata 1 was an advancement and x was a carcinoma (unclassified). All but x of the tumors in this group were.

highly malignant

Because of the mildness of their symptoms patients with primary carcinoma of the trachea usually do not seek medical attention until the condition is well advanced Even then its nature often remains unrecognized until late If reentgenograms and gen eral examination of the thoray are negative and in direct examination with the laryngeal mirror does not reveal the cause of the trouble bronchoscopic study is imperative. Many cases of primary malig nant tumors of the trachea are allowed to progress to an advanced stage under the mistaken diagnosis of astima. The differential diagnostic features of these conditions are definite however and should readily permit their recognition.

In general the prognosis of primary carcinoma of the traches is unfavorable. As a rule the subject lives only a few months if not operated on but in

some cases may live several years

The treatment depends on the situation of the growth and its activity. Treatment with a possibility circ can be carried out only in moderately early lessons situated in the upper half of the trachea Destruction by surgical data hermy following experience of the growth by tracheotomy and post operative irradiation offer the best prognosis

Nystrom G Experiences with the Trendelenburg
Operation for Pulmonary Embolism 1s
St g 1930 cii 498

Nystrom reports on five cases of his own and eight of other surgeons in which the patient survived pulmonary embolectomy In cases in which more than ten minutes have clapsed ince the onset of symptoms of embolsm an attempt at embolectomy is justified. Under favor able conditions complete cessation of the circulation for two minutes is not incompatible with life. Even after seven minutes the heart has been stimulated to action. When the circulation is suspended longer irreparable injury to the medulla is done. If results are to be expected from embolectoms the artery must be cleared and the blood current re established within from six to eight minutes.

The indications for embolectomy are not always easily fixed because there is no definite method of diagnosing pulmonary embolism. In one instance, the author operated on a patient with urania epochesism of the presented symptoms closely similar to those of

pulmonary embolism

The most important of the technical details of embolectomy are the avoidance of injury to the flee a and the prevention of pneumothorax Through a longitudinal incision along the left border of the sternum the second third and fourth ribs a e exposed the costal cartilages are removed the anterior mediastinal space is entered and the tw pleura are separated to expose the pencardian The pericardial sac is then opened by a longitt fi at incision and the flaps are separated and faster de the skin A rubber tube is carried through the pericardial sinus around the great vessels an I ger! drawn tight just before the pulmonary artery propened Through an opening about 1 5 cm ker the Trendelenburg instrument is introluced the pulmonary artery and the clot extracted f not uncommon for the embolic blood ma fresh and loose that they offer no resiste forceps and consequently cannot be grd of such conditions Nystrom uses a glass to apparatus When the artery is emptical ef the lees clot air enters The air is replaced h slightly releasing the rubber tournique the vessel is sutured the attempt ; establish circulation by mechanical size the heart by gentle pulsating comp the thumb and two fingers Mass y is dangerous The injection of art - ... bulbus arteriosus or the base of th an immediate effect As soon as established respiration should belt artificial respiration should be beg

It is of prime importance to have well trained operating personnel appearating room always in complete

Convalescence after embolector.
The more common complication, pulmonary infarction empyema recurrent embolism

J. Damit. 3

Wilson H On Unilateral Para by phragm by Evulsion of the Pr. July 1 It I alia 93 11 487

Phrenicotomy was first perf

lung In 1913 Sauerbruch first performed it for tuberculos: Accessory phrenics were first noted in 1922 Since then they have been found in from 25 to 68 per cent of cases It vas formerly believed that injury to one phrenic nerve would be fatal but it is now recognized that complete avulsion of even both ner es can be done without unfavorable sequelæ

The diaphragm is of first importance in causing expansion of the apical as well as the basal portion of the lung As the root of the lung is attached to the central tendon of the draphragm through the pen cardium a do nward and forward movement of the entire lung is caused by inspiration

Various studies suggest that complete paralysis of the diaphragm will reduce the volume of respired air by less than one half It is the capacity for the thor aco intercostal type of respiration that makes the operation of phrenic avul ion clinically possible

The author re iews se eral physical signs of uni later I diaphragmatic paralysis. Chief among these is failure of the cricoid cartilage to descend on in spirate n The best method of determining the pres ence of the condition is \ ray examination

I h enic avulsion causes the immediate ascent of the diaphragm on the paralyzed side. The rise may increase for six months and is permanent. The dia phragm soon becomes very thin and the muscle cells shrink and undergo degeneration. In the 200 cases at died the e tent of the rise varied from 1 2 to 4 cm A greater elevation i likely to occur in hype sth nic and athenic persons than in persons of the hyposthenic type. The ele ation varies also with the presence of thickened pleura and bas I pleuritic adhesions I stimations of vit I capacity show an a erage reduction of 18 per cent follo ing phrenic avul ion

Relaxation and re t of the hole lung occur as a result of the decrease in the size of the pleural cavity and the failure of the hemidiaphragm to descend The I wer lobe of the lung is compressed also by the pressure of the raised and paralyzed diaphragm The author does not agree with others that cough and expect ration are aided by phrense avulsion On the cont ary he believes that the operation may ha e an unf vorable effect upon them

Wilson has had only untot ard results in 200 op erations. In these instances there as an increase in the dyspnæa but in only i case as it ser ous

The operation is a valuable supplement to thoraco plasty and also to artificial pneumothora in which the pulmonary collapse is u satisfactory because of bas I diaphragmatic adhesio s It lengthens the in terval between refills Howe er it i of doubtful value in decreasi g the incidence of pleural effusion

In tuberculosis phrenic avul ion has a beneficial effect on the local les on the toxemia and the hæmoptysis but causes little change in the amount of sputum

In bronchiectasis the results of combined artificial pneumothorax and phrenic avul on are disappoint ing in the great majo ity of cases and phremicectomy alone is of slight value Foctor is lessened but expec toration is not affected The author believes that phren c avulsion may im

prove drainage in eases of lung abscess and interlobar empyema and that it should be considered the treatment of pain due to pleural or pleurope i cardial adhesions TRA TE B B RRY M D

Holman E The Fundamental Principles Under lying the Treatment of Intrapulmonary Ab scess and Persistent B onchial Fistulae B & J S & 193 E VI 480

The author states that the heal ng of pulmonary abscesses depends upon bacteriological and mechan scal factors In the f st group he places (r) the resistance of the patient (2) the virulence of the organisms and (3) the number of types of organisms involved. He regards it as probable that abscesses produced by emboli infected with a single organism heal more promptly after evacuation than ab cesses produced by multiple organisms v hich have entered the parenchyma by way of the bronchus

The mechanical factors involved in the healing of pulmonary abscesses are (1) drainage (2) the con traction of fibrous ti sue deposited in the abscess and (3) the re expansion of the surrounding lung Complete drainage should be secured if possible hy way of the bronchus The bronchoscopi t ma assist by removing obstructing granulation tissue or dilating constricted by nchi In the presence of a ide open bronchus leadi g from an absce s cavity external drainage through the chest wall 1 con traindicated as it may delay healing or prevent 1 large through and th ough airway it entirely (bronchus abscess external fistula) prevents the

atelectas s of the lung surrounding the abscess The best time to secure prompt healing of an abscess is immediately after its formation. Imper fect drainage or delay in securing complete evacua tion by br nchus or e ternal fistula fa os the gradual deposition of fibrous ti sue in the wall of the abscess which will pre ent obliteration of the lesion by re expansi n of the surrounding lung

normal alveolar exchange and thereby fa ors

Whether d sinage is obtained through a bronch s or through an external opening the author believes the treatment of a pulmonary absce's requires absolute rest in bed until all clinical a d roentgen s gas of the lesson disappear Pooling of pus in an abscess by gravity must be prevented at all times in order to pre ent progressive fibrous thicke ing of the wall

The healing of persistent bronchial fistulæ associated with empycma or pulmon ry abscess depends upon sufficient relaxation of the bronch s to pe mit closure by cic tricial co tract on This requires e tensive mobil at on of the chest i all by resection of the ribs overlying the pleural or pul monary cavity and the removal of the neighboring ribs to which the fibrous vall is attached Rela a tion of the fibrous tissue lining the cavity is abso lutely necessary to insure c catricial closure of the

open bronchus The implantation of muscle fascia or fut in an infected cavity although occasionally successful usually fails as it depends upon the adherence of imperfectly nourished tissue to an infected surface EMIL C ROBITSHEE M D

#### Eloesser L Closure of Bronchial Fistula Surg Clin North 1m 1030 x 1011

Small fistulæ resulting from the drainage of abscesses usually close spontaneously but in cavities of large abscesses which have been packed for a long time retraction and epithelialization occur the epithelium unites with the skin of the chest wall and spontaneous closure is no longer possible

In cases of fistula resulting from lohectomy the fistula rarely closes The lung retracts and the hron chial epithelium the epithelium of bronchiectatic pouches and the skin unite. The retracted lung takes on the appearance described by Lebsche as gridiron lung Large tough septa carrying blood vessels and bronchi stand out bet veen numerous pouches and depressions At the apex of this multilocular sac it is possible with more or less difficulty to discover one or more open bronch: A method of

closure has been described by Lebsche

Before operation the author's patients are kept under observation in the hospital for a few days to make sure that expectoration has entirely ceased and that the wounds are clean Two hours before the operation they are given 2 or 3 gr of luminal and half an hour hefore the operation they are given

from /6 to /4 gr of morphine sulphate

In cases of lower lobe fistula the patient 1 laid on the normal side and in cases of upper lobe fistula he is laid on his back. The opening in the chest which in the course of healing has contracted considerably is circumscribed with a knife at the junction of the bronchial mucosa and skin heing thereby enlarged to its original size Bleeding is inconsiderable When the resected rib ends are reached the pleural adhe sions fastening the lung to the chest wall are sepa rated by hlunt dissection. As they are freed the edges of the bronchial fistula are caught with Alhs

Fistulæ resulting from lobectomy or from exten sive cautery operations leaving merely the shell of a lobe are usually dissected out without great difficulty Adbesions to the chest wall are thin and comparatively bloodless and can be separated by blunt dissection Those to the diaphragm are tougher and contain large vessels They bleed less if sepa rated with the galvanocautery than if separated with the knife Hæmostasis should he accurate and all vessels should be severed between two ligatures Pericardial adhesions and adhesions between two lobes are also likely to he dense. The dissection is continued until the pedicle is reached The large pulmonary vessels supplying the opened lobe are caught tied and severed A little lung tissue is left at the hilum to he used as a covering for the bron chial stump Small incisions into the pedicle are alternated with suture and ligation until the opening

of the bronchus itself is reached. This is closed with interrupted statches of fine black silk, the knots be ing tied toward the inside. The lobe is not entirely severed until the bronchus is closed and all of the vessels have been tied. The stump is then covered with whatever remains of the surrounding lung tissue or with hits of pleura. The cavity left in the chest after removal of the lobe looks surprisingly large but is rapidly obliterated by dilatation of the neighbor ing lobe and ascent of the diaphragm. Preliminary phrenicectomy will help greatly to obliterate the cavity left after removal of the lower lobe Upper lohe cavities may he closed by paravertehral resection of a few of the uppermost ribs. The wound in the chest is closed around a small rubber drain. The skin and soft parts are pressed into the chest by means of a large soft rubber bath sponge held in

place by adhesive plaster strapping
In cases of smaller bronchial fistulæ resulting from the drainage of large absccsses the lohe containing the fistula is thoroughly mobilized by severing all of its pleural adhesions the edges of the tough mem brane lining the fistula are caught and the membrane is dissected out from the lobe in which it lies. The dissection is bloodier than the dissection of an entire lohe and hæmostasis is difficult as the surgeon is working not in a comparatively bloodless pleura hut in the parenchyma of the lobe itself Numerous pulmonary vessels leading to the fistulous tract re quire ligation The dissection and ligation are con tinued until the sac depends from one or two larger hronchial branches The latter are crushed and h gated or sutured with black silk and the remains of the lobe are sutured over them with several layers of fine catgut The lobe is handled gently chest is closed around a small rubber drain. The use of gauze packing is contra indicated. In the author's cases the fistula failed to remain closed only when the intrapleural cavity was so large and so stiff walled that packing seemed safer than closing the chest over it

The operation is difficult technically but is not dangerous In the author's cases the mortality was mil The dramage tubes were removed after three or four days The wounds healed well and the patients were discharged from the hospital after about two weeks

Nine cases of persistent bronchial fistula are reported GEORGE A COLLETT M D

Fremont Smith M Lerman J and Rosahn
P D Primary Carcinoma of the Lunb A Study of Eighteen Autopsied Cases England J Med 1930 CC1 473

Primary carcinoma of the lung is far from a rare disease It is found about once in every 200 autopsies and is the cause of about 1 of every 20 deaths from carcinoma Weller states that 74 per cent of persons developing the lesion are males Of the 18 patients whose cases are reported by the authors 17 were The youngest patient was twenty nine years old The nthers were past forty years of age

The symptoms vary but in the case of a man over fifty years of age the onset of cough vith pain in the chest and dyspaces or hemoptyse should suggest cancer rather than tuberculosis The symptoms of greatest importance to the patient may be caused by metastase I unilateral sharply defined area of dullness and diminished breathing suggestive of en capsulated fluid may be due to cancer of the lung Early in the disease examination of the lung may be negative GEORGE \ COLLETT M D

Golt E V Primary Carcin ma of the Lung and 1 11 d 93

At the Ancker Ifospital St Paul Minnesota two deaths from primary lung carcinoma ere recorded in the period between 1912 and 191 and during the past twelve ye is sixteen more have occurred Barron collected statistics indicating an increase in the incidence of primary lung cancer from 0 057 per cent in 1878 to 0 47 per cent in 1016 Reports from the United States Canada and Furope consistently sho a marked increase in the conditi n This may be due to the increased length of human lile to the reclassification of malignancies of the lungs or to improved diagnosi

The chief etiological factors of lung cancer may be grouped as (1) bacterial infections of v h ch influenza is the most important and (2) chemical and mechanical irritation due chiefly to the 1 hala tion of tobacco smoke tar laden road dust or war

Primary lung cancer may arise from (1) the columnar enithelium lining the b onchi ( ) the mucous glands of the bronch; or (3) the squamous alveolar epithelium All pulmonary cancers g ou rel tively slos ly becondary gro the occur most frequently in the liver suprarenal glands brain

ertebræ and long bones

Men are affected three times more frequently than women the signs and symptoms are not char acte stic The onset may be so sudden as to simu late an acute pleural r pulmonary infection or the prodrom I period may be so prolonged as to suggest a low grade chro clung disease In some ca es the conditio may n t bec me manifest until after meta tases ha e occurred. The dag osis must be based upon a carefully taken history the findings of physical a d \ ray e mination and biopsy bro hoscope I rad at n and p ompt surgery offer the best chance of beneft

Glotz eports three ases in all of which the di gnosis 's proved at autopsy

ALTON OCI SN M D

Da i on C and Horwit W A Primary Car noma of the Lung with Metastas s to the Cent al N vou Syst m tr l I 1 M d 93

Meta tasis of primary care noma of th 1 ng to the central e vo s sy tem and other organs is not infrequent set metime the f t s gns and symptoms of the cond t n are used by th metastases

Of 109 cases in t hich a d agnos s of primary car cinoma of the lung was made at the Montefiore Hos pital New York involvement of the nervous sys tem v as found in 12 In 3 of the latter there we e symptoms of compression of the spinal cord from invasion and destruction of the verteb a by the metastases In a case which came to autopsy c m pression and distortion of the cord without ci culatory interference were found. The spi al cord is rarely the site of metastases from primary carcinoma of the lung

In most of the cases with involvement of the ce tral nervous system the neurological signs began suddenly Neurological s gns may be p esent with out any evidence of pulmonary changes Therefore a thorough physical and roentgen examination of the chest should be made in every case in which a

tumor of the brain is suspected

Metastases to the central nervous system may be single or multiple. It is thought that in cases of multiple metastases the tumor cell a e carried in the blood stream from the pulmonary veins to the left side of the heart and thence to the central nervous system by way of the general circulation Single metastases are attributed to transportation of the tumor cells from the lymph glands of the neck by backward flow of the lymph through the pen neural sheath of the subdural and subarachnoid spaces and thence to the cerebral menunges

Primary carci oma of the lung is frequently

diagnosed as pulmonary tuberculosi The most common histological types are those

derived from the bronchi Jos n k Na ar M D Syme Th mpson If E Spontaneou Pn umo th rax L ct 93 79

Spontaneous pneumothorax occurring in pulmo nary tuberculos s may often not be recognized lione er et is not a frequent complication

cause is the breaking down of a lesion situ ted near the pleura , hich establishes a communication with the pleural cavity

Complete spo taneous pneumothora following the entrance of a large amount of air into the pleural cavity a manifested by sudden dyspices and cya nosis an increase in the pulse and temperature and th racic pan In an adv need case of pulm n ry tuberculosis it m y be fatal The findings on exami nation are a milar to those in a tificial pneumoth ray -hyperresonance on percuss on absence of breath sounds reverbe ation of any sound produced with n and if the aperture is small cavernous bre th Heural effus on may re ult It : vell sound L or n that spontaneous p eumothorar may follo v artificial pneumothorax but u der su h ci cum stances it is usually recognized at once

good If the The prognosis in a limited case co dition is complete and the e is postive pre s re in the pleural cav ty asp rat on f the air may be i dicated This should be done hen possible with the ad f a pneum thora apparatus so that the

e act pe su e v th n may be dete m ned

The author reports four cases in detail. In two the condition was due to the rupture of an emphy sematous bulla in one it followed an attack of asthma which is very rare and in one it developed while the patient was undergoing artificial pneumo thorax. Recovery resulted in all

WILLIAM J PICKETT M D

Browne D The Treatment of Empyema in Chil dren Lancet 1930 ccxix 733

The treatment described by the author has given such encouraging results that he has adopted it as a routine procedure in all cases of thoracic empyema. It is a distinct variation from the methods in vogue

and has certain mechanical advantages

While repeated aspirations and rib resection with a plain or flanged tube are useful and indicated in certain types of cases these procedures do not fulfill lithe requirements for rapid and complete cure. The breaking up of adhesions and digital exploration are useless and not without danger. The numerous disadvantages of closed drainage include incomplete emptying of the cavity, the difficulty of ascertaining the occurrence and amount of negative pressure in the cavity the difficulty of muntaining an air tight junction the impossibility of freely draining the cavity and the difficulty in maintaining patency of the small drainage way until all of the pus has been evacuated. However closed drainage all o has ad vantages and has saved many lives.

The author's method represents an attempt to retain all of the advantages of other treatments and yet establish drainage and allow irrigation with an easy outflow. It needs little attention and definitely

indicates the cessation of drainage

The steps in the technique are outfined in detaif Infiltration with 0.5 per cent novocain should always be used even in children The sixth or seventh inter space in the posterior axillary line is incised and a section of intercostal muscle removed. The pleura is bluntly opened and if no pus is encountered a section of rib is resected. A lower point of attack is madvis able on account of danger of injury to the diaphragm As soon as pus appears its gush is stopped by a swab and two de Pezzer self retaining catheters are insert ed by means of stylets The tubes are then clamped sbut so that no further flow of pus escapes and no air gains access to the pleural cavity The bulbous ends of the catheters form an efficient barrier to the thoracic cavity The wound is tightly packed with liquid paraffin gauze held by a many tailed bandage

A special bed is prepared by fastening a sheet of cause as to the frame and making a hole 4 in in diam eter to one side of the midline and about 2 ft from the head end. The child is placed upon this causes sheet so that the incision is just over the hole. The lower catheter is passed through the hole and into a bottle containing a fluid antiseptic. The rule of draming from the lowest part of a cavity is thus

complied with

After an hour or two the tubes are unclamped and
the pus is drained into the bottle. When the flow has

cersed the upper catheter is attached to a sterile finned through which fresh Dakins solution is run at a temperature of tog degrees F and from a height of 2 ft above the wound Cold solutions may cause shock. When the child is awake these injections are repeated every three hours. As a rule from ½ to 1 pt is sufficient. Later when the patient's condition permits he can be rolled about during the irrigation so that the fluid will penetrate freely throughout the cavity. If the tubes become blocked they can be easily removed cleaned and replaced.

The advantages of Dakin's solution are two fold I leural thickening and stiffening are prevented and the primary infection is sterilized so that secondary

infection is prevented

When the fever has subsided sitting up and blow ing exercises are begun. The child can soon be up

The final stage of the treatment is in many ways the most difficult The tubes must not be removed too soon nor be left in too long The gradual dim inution of the cavity can be measured by noting the decrease of the sucking in of air on inspiration through the wound when it is temporarily left open However this sign is not definite because in certain cases the cavity walls are too stiff. Irrigation is a much better way of measuring progress. After the removal of one tube the child is turned downward so that all of the pus can run out and then rolled back and the cavity filled with a measured amount of fluid Of course the critical amount varies with the size of the child but when the cavity holds less than so ccm one tube should usually be left out per manently and the wash out continued through the other tube When the amount decreases to less than 5 c cm the second tube may be removed and irriga tion continued by means of a small soft catheter When the can no longer be pushed into the chest the wound should be allowed to heal

Three weeks is given as the average time required for complete healing in emptona Other methods may shorten this period but quick successes are usually bought at the price of a secondary operation

MORRIS A SLOCUM M D

#### **ŒSOPHAGUS AND MEDIASTINUM**

Seiffert Stenoses of the Œsophagus (De Steno en ds Oesophagus) Lt Ir f Hals Vas i u Ohr rheilk 1930 xxxii 203

For the treatment of cicatricial strictures of the cosphagus early use of the bouge is advised Seiffert begins it the second week after the corrosive injury. To find the way through the constriction in difficult cases he employs a steel wire o.4 mm thick to the end of which a metal ball about 1.5 mm in diameter is soldered. The wire is drawn through a narrow metal tube with a lumen somewhat less than the diameter of the ball. The purpose of the tube is to prevent interference with the palpating sense by chimination of the rubbing of the wire. The wire is advanced by cutious palpation and the route thus won is maintained by pushing the tube after it.

The author has found that in cancer of the essoph agus endoscopic removal of the lesion is sometimes possible. In two cases he duided the resophagus above the tumor with existence and Anie through the croophagoscopy tube after injecting novocain around the ersophagus and remove f the diseased portion of the essophagus but by bit. In assal tube the as then in troduced for a few days. He usually begins external tradiation with the contept anys. Meta about four teen days of this treatment he gives intracoporal or intratumoral treatment with radio active substances.

The article has a hibliography of thirty fi e pages
A Brower (Z)

Distria A. The Route n Picture of Perforation of the Thoracic Esophagus (L. d. m. r. d. logican il ndrom d. pri raz. ed llesol o t. a. ). R for med 930 l. 14

Perforation of the crisophagus may be caused by foreign hodies traums or simple ulerc discretization chronic inflammation or carcinoma of the crisophagus. The clinical and foreities pictures depend on the organ into which the perforation occurs. If the perforation occurs into the mediastionam it may cause med astinal hydropaeumothorar or mediastinal populamentohorar. The reentings picture is the same in the two conditions. The mediastinal shadow in broadened and the outlines of the heart are covered by it. There is a horizontal fluid le did the gas may extend up to beneath the muscles of the neck. The crisophagus is hidden within the mediastinal shadow.

If the exophagus is adherent to other mediastinal organs the perforation will take place into the organs to which it adheres. Perforation into the vessels is soon followed by death. Perforation must be peritardium causes by dropneumopencardium or propneumopencardium with a c llection of gas above a h incontail fluid level which is constantly shaken by the pulsations of the heart. The author tepo is a case in which the hanum could be seen passing into the peritardium through the perforation

When penbronch its causes adhesions between the crsophagus and pleura perforation may occur into the free pleural cavity. When only a smill amount of exoph geal contents p sees there i time for the formation of a defense b free and the ple ral ac cumulations may become sacculated. In the absence of saccul tion there is propneumotho at with a horizontal fluid level at the base. In a few instances the passage of the bar um into the pleural cax by has been seen. Sacculated popneumotho at may be interlobar or mediastimal.

A number of cases of perforation 1 to the trachea have been reported. Perforation into the respiratory tract is particularly apt to occur in cases of car cinoma of the coophagus. In such cases the roentgen lugnoss is made by demonstrating the passing of barium from the croopingus into the respiratory tract. Care is necessary in the examination addition to the dath from sufficient may be caused by entrance of the bismuth should be used. In addition to the danger of sufficiation the fistule may quickly cause enous long complications the fistule may quickly cause enous long complications. Gangene and abscess of the lung may be caused by food has mg through the fistula into the lung and the cosphagus may perforate directly into the lung tissue. The rentigen picture of lung abscesses in such cases is the same as that of lung abscesses from any other cause.

Hageström P To Cas s of Cardiospasm and Bilatation of it e Esopi agus Which We e Operated upon Sucess tully by the Heyrorsky Technique (7 \* 1 Falle o K do p sud Occophagus di sto de mt ri e kinhem A s R S a h litey sky pnrt wude) (1 dw 4 f 5 d 4 f 5) Ir S45

The author reports two eases of cardiospasm in which esophagogastrostomy gave good results

The first was that of a girl twenty sears old who ad expensioned difficulty in swallowing sert since an attack of diphtheria at the age of thirteen yea. In September 1925 Nystrom of Upsals performed a subdisphragmatic oxophagogastrostomy. Roent genographic e amination nine and fourteen days after the operation still showed some retention of

geographic e amination nine and fourteen days after the operation still showed some retention of the opaque meal in the esophagus. During the following year the patient ginined at 8 km and er perienced no difficulty in swallowing. Learnington four years after the operation showed that the passing, through the lower part of the esophagus and the cardia is a showed to since the day a factor and bad and shaded on the through the day high gamatic wait. There may no retention of the meal taken.

The second case was that of a mrn aged thirty years who gave a history of diff culty in swallowing rund had become worse despite prolonged treatment with sounds Subdiappragnature usophago gastrostomy was performed in February 1930 bince then the patient has been free from 3 mptoms. Receitgee examination shows the food cass as down to the stomach without difficulty. In this case the progno 5 must be considered fairly serious as the patient is in an advanced stage of pulmonary tuberculo is

In c acluseen the author reviews all c ses of cosphagog stroatomy hitherto reported Of the twenty nine ases! Inch the tr asper toneal route suggested by Heyrovsky was used the result was sait fact yi and! whereas of the five cases in which the transpleural route suggested by S ue bruch was employed de the resulted in two

# SURGERY OF THE ABDOMEN

### ABDOMINAL WALL AND PERITONEUM

Chabrut R Hernial Contusion (Contabution à l'étude de la contusion hermaire) Presse 22 d Par 1930 XXXVIII 12 3

Within eight months Chabrut operated on two cases of serious hernial contusion which had caused generalized peritonitis through rupture of the intes tine Hernial contusion has been observed only in inguinal hernix A shock of slight intensity may cause serious anatomical disturbances In some cases the intestine is crushed against the pubic bone in others it bursts. In some instances the shock causes a syndrome which resembles that of strangu lation. Two illustrative cases seen by Verdelet are reported These traumatic strangulations should be operated upon Reduction may he followed by gen eralized peritonitis. In two cases cited from the literature the signs of acute peritonitis appeared im mediately after reduction. Even when spontaneous reduction occurs operation is urgent. Signs of peri tonitis appeared in two of Chabrut's cases in which there were no unusual symptoms from the hernia

When the classical signs of perforation are noted it is too late to operate. The only important signs of perforation are generalized contricture of the abdomen the wooden abdomen and the disappearance of prehepatic dullness. Among ten cases reported in the literature (two were Chabrut s) there were two recoveries. In both of the cases with recovery operation was performed in the second hour. One of the patients who recovered and who was seventy years old was operated upon by Chabrut.

Not only the intestine but also the omentum and the mesentery may be contused and torn and may bleed into interior of the abdomen or into the sac In a case reported by Rochard there was a mesen tenc hemitions and in a case reported by Cooper there was detachment of the mesentery with a large intra abdominal hemorrhage. Iatel saw tearing of the mesenteric vessels. Sometimes the blood collect ed in the bottom of the sac is of peritoneal origin. This was true in Flaubert a case. Patel had a case in which there was a yoluminous hematoma due to rupture of the cord.

In two cases the author used the median incision He thinks now it would have been better to do a hermolapirotomy. He intends in the future to use an inguinal incision.

Soresi A L Exteriorization and Utilization of the Sac and Redundant Peritoneum in the Radical Treatment of Inguinal Herner An J S g 1930 v 130

Soresi describes a technique in which the sac and any bulging peritoneum are exteriorized and the sac is used to re inforce the repaired area. The steps in the procedure are (1) incision of the slin (2) exposure and incision of the aponeurosis of the external oblique muscle (3) splitting of the fibers of the internal oblique and transversalis muscles and exposure of the peritoneum (4) incision of the pertoneum (5) exposure of the internal ring and obliteration of any bulging of the peritoneum with exteriorization of the sea and redundant peritoneum and (6) fixistion of the sac followed by repair of the solit in the muscles and suturing of the fiscia

Variations in the technique according to cases points to be emphasized the rationale of the procedure and the disposition of the sic and the cord are discussed.

By this technique atrophy of the testicle hæma tomata mury to the intestine bladder was def erens and spermatic artery and recurrences of indirect hernit are completely prevented. The recur rence of direct hernix is rendered improbable because the blood lymphatic and nerve supply of the region are not damaged and the region is re inforced by the presence of the exteriorized sac Trauma shock and other postoperative complications are reduced to the minimum because little damage is done to the tissues and a very short time is required for the operation In the cases of children and young adults the opera tion has often been performed in less than ten min utes and when the diathermic scalpel was used even without ligation of a single blood vessel. The results in numerous cases including two cases of sliding herma one case of strangulated herma and one case of hermia with an ectopic testicle were very satis CARL R STEINKE M D factors

Moen E Follow Up Studies of Patients Operated upon for Inguinal and Fernoral Hernia During the Period from January I 1918 to December 31 1927 (Vachuntersuchungen von Patienten die we en Leisten und Schneißbruchs von 1 1 1918 bis 31 tu 1927 ope lett warden) N sk Mag f Lag d sk 1930 va 6 4

In the follow up examinations reported it was found that 2 21 per cent of the inguinal herine had recurred. The incidence of recurrence of such her max as given by others ranges from 1 5 to 6 per cent administration of the complications in the heding process such as infection and the formation during the operation of harmatomita which may hinder closure of the herinal opening and provide a favorable medium for the development of infection. Other important causes are insufficient isolition of the herinal sac and insufficient mobilization of the oblique muscles which result in such great tension when the muscles are surfaced to I our purt's ligament that the muscle fiber atrophy and

lose their supportive capacity. In some cases the cause is natural weakness of the musculature. Recurrence may be brought about also I y vomiting or stubborn constipation after the operation.

The author's follow up studies showed that the method of Bassin's still the best procedure. Ho vever because of its complicated nature it should be done only under conditions of the strictest asepsis. Early operation is advisable. If possible it should be done under local amesthesia. If vers (2).

## GASTRO INTESTINAL TRACT

Deaver J B and Burden V C Fu ther I pe 1 ence th Resection of the Anterio Half of the Pylorie Sphincter A S g 93 vc 1 533

The anterior half of the pyloric sphinicter can be removed surgically without opening into the lumen of either the st mach or the duodenim. The yound is cloved in the direction of the incison. The authors have performed this operation in cases of per tic ulcer without organize plone obstruction cases of pylone spasm associated with other abdominal lesions and cases of hyperchlorish draw without an organize to show the state of hyperchlorish draw without an organize to she

Uncontrolled gastric acidity is assumed to be a potent factor in the causation of peptic ulcer Under normal condit as the stomach probably secretes very little acid in excess of the digestive require ments Ilypersecretion is caused by gastric irrita tion or by evaggeration through the vagus nerves of the psychic phase of secretion as the result of irri tabil ty of higher nerve centers. For a time exces sive secretion of acid will be controlled by regurgita tion of duodenal contents into the stomach. In this process the function of the pyloric sphincter is im portant. It must be coordinated with the f rees that bring about regurgitation other isc its failure to rela or to open wid by will he der or obstruct the entrance of neutralizing agents from the duodenum into the stomach An acid solut on stronger than o 2 per cent is injurious to the mucous membranes of the stomach and duodenum and if persistently appl ed will give r se to ulceration

The hyperactifity and hypersecretion of peptic ulcer's prob bly the result of exagerat on of the psychie phase of see ction associated it disturbed to not the pylone sphincter interfering with duo denal regurgitation. The fundament I nervous disturbance in cases of peptic ulcer is often difficult or mipossible to co tect. The authors believe that the control mechani m of duodenal regurgitation can be restored to normal by removal of the unterior half of the pylone sph nicter. There is chin call and \u03bc ray evidence to indicate that pylone spains in requestly

assorated with pept c uler
In summarizing the auth rs sav A c rrective
procedure hich removes the pyloric interference
with duodenal regurgitation has been applied in
cli ical case of peptic uler pylorospasim and
hyperchlorhydra. In this procedure the anterior
half of the pylor c sphincter is removed. In an
experience with e ghty one cases over a period of

too and one laff years the results have been at least as satisfactory as from any operation we have used in similar case. I sofar as sympt matic relief and postoperative \ \text{ray findings are concerned.} We have not \( y \) et encountered a return of ulceration and of course the development of gastrojeunal ulcer is impossible. The removal of the anterior half of the pylone sphinder is a much simple operation and a course of the results are equally satisfactory and postope a tive complications and late sequelie are much less hazardous.

Faul y G B and ty A C Experiment I G tre
Ulcer The Effect of the Consist nev of the
Diet on Healing 1 ch I t M d 193 1 5 4

In experiments on rabbits the authors produced gastric ulcers I y Ferguson's technique. They found that these simple ulce is healed within they found that these simple ulce is healed within they days irrespective of the consistency of the det. The simple ulcer with a silk suture in its base also healed if the rabbit was fed a solf diet but tended to become chronic if the rabbit was fed a rough det. The authors concluded that the consistency of the diet in dienced the healing of gastric ulcers if other factors tending to delay healing were operating simulta neously.

Finney J M T and II nrah n E M Jr Th Results of Operatins fo Ch onle Gast ic and Duod nai Ulceratin A Statistic 1 Study of Tirty Yea Period f S g 93 0

The authors preface their report with the state ment that they have less confidence in surgical measures to effect a cure in cases of gast ic and duodenal ulcer than in cases of other common n n cancerous sure cal lesions of the abdomen

The cases reviewed were 737 c ses of gastric and duodenal ulcer operated upon in the period I om topo to 1930 in the Johns Hopkins and Un on Mc morial Hospitals Baltimore The ope ations were performed by about 30 surfaces.

In to (14 9 per cent) of the cases perforation h d occurred pror to the operation. In this group, the operative mortality was 23 6 per cent whereas in the cases thout perforation it was 8 6 per cent fifty say of the perforated ulcers we gastric 53

ere duodenal and 1 was marg nal In the ca so of perfo ated gastro ulcer the operature mortality was 86 B per cent and in the cases of perforated duodenal ulcer it was 189 per cent of the 34 p tients treated for perforated ulcer who c uld be traced 31 (or 1 per cent) ere releved by the operation on When miscellaneous proce fures were sed in the tre tient of perforated ulcer the not lathy 1 as 29 8 per cent and when gastro enter stomy was added it as oper cent it was 2 per cent al o when c c in or sutu e with pyloropi sty was done. Intal gastrectomy had an rital ty of 11 per cent

In 627 of the cases res e ved the ulcer was chron c Pro hundred and sixty eight of the chronic ulcer were gastric 339 were duodenal and 20 vere mar gin il The total mortality was 8 6 per cent. Of the 330 patients treated for chronic ulcer who were traced 83 9 per cent were benefited by the operation. In the 68 cases of chronic gastric ulcer the operation at the mortality was 9 7 per cent. In the 330 cases of chronic duodenal ulcer the operation was beneficial in 808 per cent. In the 330 cases of chronic duodenal ulcer the operative mortality was 7 i per cent and beneficial results were obtained in 864 per cent. In the 20 cases of postoperative marginal ulcer there were 4 deaths.

Seventeen of the cases of chronic gastric uleer were treated by miscellaneous operations with a mortality of 29 per cent. In 90 cases gastro enterostomy was done with a mortality of 33 per cent. In roz cases pyloroplasty was done with a mortality of 88 per cent. Partial gastrectomy was done in 59 cases with

a mortality of 153 per cent

In the 339 cases of chronic duodenal ulcer there were of miscellaneous attypical operations with a mortality of 22 per cent 170 gastro enterostomies with a mortality of 10 6 per cent 149 pyloroplastics with a mortality of 27 per cent and 11 partial gastrectomies with no mortality.

sustrectorines with no mortality

Of the total number of cases gastro enterostomy was performed in 260 with a mortality of 81 per cent and beneficial results in 84 r per cent and pyloro plasty was done in 251 with a mortality of 5 per cent and beneficial results in 85 8 per cent Gast trectomy was done in 70 with a mortality of 1 9 per cent

Of the cases of duodenal ulcer gastro enterostoms, was beneficial in 80 6 per cent and pyloroplasts in 86 8 per cent whereas of the cases of gastric ulcer gastro enterostomy was beneficial in only 76 I per cent and pyloroplasty was beneficial in 83 0 per cent

In the period from 1925 to 1930 112 cases of chromic user were operated upon at the Johns Hopkins Hospital with a mortality of 3.7 per cent. Thirty seven of the leasons were astrice 70 were diodenal and 5 were marginal. Gaetro enterostomy was done in 84 cases with a mortality of 2.4 per cent. Ploroplasty in 7 cases with a mortality partial gastrectomy in 7 cases with a mortality partial gastrectomy in 7 cases with a mortality of 1.4 per cent and miscellaneous operations in 4 cases with no mortality. In the cases of marginal ulcer the Operative mortality was 20 per cent. Sixty gastro enterostomies were performed for duodenal ulcer the with 1 death.

Balfour D C The Results of Gastro Enterostomy for Ulcer of the Duodenum and Stomach 1 ; 5 rg 1930 xc1 558

The purpose of any operation for peptic ulcer is fourfold (1) to relieve symptoms (2) to protect against complications (3) to protect against recur rence of ulceration and (4) to increase life expect ancy. All of these purposes should be fulfilled to the maximum with minimal operative mortality morbidity and removal of normal structures.

The author reviews 500 consecutive cases of duodenal ulcer in which gastro enterostomy alone was done during the years 1918 and 1919 The

results are based on reports received after a minimum of five years after the operation

In a careful survey of the series from the stand point of rehelf of symptoms it was found that in 87 per cent of the cases the operation gave rehelf which had been unobtainable by any other treat ment. Thirteen per cent of the patients failed to obtain permanent rehelf from the operation. Many of the causes of failure were not related to the stomach or duodenim. It was significant that in the group of cases with poor results the average age thirty six and fifty eight hundredths vears was almost ten years less than the average age of the patients who obtained excellent results (forty four and eight tenths years). This fact indicate that the younger the patient the less the prospect of cure

In the total number of cases the mortality within five years after the operation from all causes was 4 28 per cent and the operative mortality 1 80 per

In none of the cases did perforation of the duo denal uleer or pyloric obstruction occur after the gastro enterostomy. Forty five of the 500 patients had 1 or more hæmorrhages after the operation but it is significant that only 1 of the 500 died from hæmorrhage. This study confirmed the fact that such hæmorrhages are often directly associated with unusual physical and mental strain overloading of the stomach the evcessive use of tobacco or alcohol cross dietetic indiscretions or severe focal infection

In an investigation of the cause of subsequent deaths in the series no instance of carcinoma developing after the operation was found

Balfour reviews also roo cases in which gastro cnterostomy alone was done for gastric ulcer. He is convinced that this procedure is the operation of choice in cases in which the size or situation of the lession or the age or condition of the patient would make removal of the lesion difficult and hazardous

The operative mortality in the cases of gastric ulcer was 3 per cent. Five or more years after the operation 70 per cent of the patients were relieved. In 4 per cent the result was fair and in 17 per cent it was poor. Gastro enterostomy affords almost complete protection against the complications of perforation and obstruction. The number of subsequent deaths from all causes in the cases of gastric ulcer during a period of five years after the operation was 1.

The outstanding fact demonstrated by the 100 cases reviewed is that in indirect operation alone can be depended upon to give a high percentage of good results in cases of gastric ulcer in which the removal of the lesion by any method would be difficult and partial gastrectomy would be associated with prohibitive operative risk and unwar ranted sacrifice of the stomach

To prevent misunderstanding of the purpose of this presentation the author states in conclusion that gastro enterostomy alone has been used in selected cases of duodenal and gastric ulcer that is in cases in v h ch other types of operation did not appear to meet the requirements mentioned in the first parag aph of the article

IIo sley J S The Immediate Vortality and Late Re-ults of Operations for Gastric and Duodenal

Ulce s A S g 103 C 545
Gat wood Tie Immediate M tality and Late
Re ults of Ope ations for Peptic Ulcer 1
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Glbbon J II TI e immediate Viortality in Opera
tions for G st ic and Duod nai Ulcer and Its
Causes f S f 03 c 1 616

Horseft reviews the results of operations for peptic ulcer of the atomach or duodenum per formed in the period from July 19 o to July 1929 and 1 pyloroplasties done prior to July 1910

In 78 cases he performed a physiological pyloro plasty an operation in which physiological rest is given by division of the pyloric canal and sph neter the most acti e motor portion of the stomach and the e ci ion of any ulcer that may be present in the first port on of the duodenum. Of the patients sub jected to this operation 45 per cent were rendered sympt m free r were greatly benefited 12 per cent vere slightly benefited 36 per cent were not bene fited 4 per cent died and 4 per cent could not be traced flor lev thinks that his physiological pyloro plasty is indicated in cases of single small 1 ell defined ulce in the first part of the duodenum in hi h the lesion has n t responded to medical treat ment there are no adhesi ns or adhesions only to the gall bl dder nd a cholecy stectomy is done at the same time also in cases in which it is desired

every n or cauternation f a g stric uker
Of 37 patients subjected to gastro enterostomy
67 per cent had sati factory result 11 per cent
were slightly be efter 12 per cent were not bene
fitted and 2 per ce t died. In Horsley 8 op nion
gastro ente ost mm has a large feld in the treatment
of peptic uker being indicated when the duodenal
uke larce e leasi e adhesions are present there

to obtain an essier o tlet for the stomach as after

1 mak date os or inflammation and a recu rent

ulcer develops after pyloroplasty
Of 3 patients teated by partial gastrectomy 72
per cent had a sat sfactory result 7 per cent ere
slightly b n fited 3 per cent ver not benefited
6 per cent d d a d 3 per cent could not be traced

GATEWOOD discu see the immed ate mortality and I te results I operations perf rmed for peptic ulcer in the I resbyt rian Hospital Chicago in the pe iod

from 19 5 t 925

Of 163 p t ints treated by gastro enterostom, r 8 per cent d d in the hosp tal and 8 per cent we cared or g e it lenofted. Of the r main ag to per cent 8.5 p r c nt d ed ub equently from a gastra cond tion and 4.8 p c ent died subsequently from some other cause. While the major ty of the last group we well as f r as stomach symptoms were concerned they have not been included with the c is howere cure.

In cases of acute perforation which were operated upon within the first thevile hours there was a mortality of 5 per cent as compared with a total mortality of 5 per cent as compared with a total mortality of 5 per cent in cases of acute perforation Recurrence demanding further surgery developed after all simple closures and the mortality did not seem to be increased by concomitant gastro enter costomy.

Gastric resection for gastric ulcer and gastrojejunal ulcer has been performed more frequently during the past five years. Of 30 cases in which it was dooe a gastrojejunal ulcer developed in 3

A consideration of the deaths in these cases 1 d cates that medical trentment should be given for at least a short period before operation in every instance

Ginbon reports on 334 cases of g stric and duodenal ulcer in which operation was pe formed

In some of the 67 cases of acute perforatio simple closure was done and in others closure with gastrojejunostomy depending up n the patient's condition and the extent and duration of the peritoneal contamination. The mortal ty in cases of acute perforation was 26 8 per cent. In a cases the cause of death was peritonity in 4 cases a pathological chest condition and in r case each hæmorrhage embolism empyema local peritonitis with acute degeneration of the 1 er recorded condition Ten of the patients v bo died vere operated on within eighteen hours of the perforation Those who rec ered had a variety of complications including p rotitis phleb ti pul monary collapse bronchiectasis late vomiting bronchopneumonia and duodenal fi t la

In the 67 cases without perforat n there ver op deaths a mortality of 108 perce t. The c u es of death were pe itonitis pneum ni collapse of the lung local peritonitis with lung there pulmonary embolism subphrence abscess and empyem hamor thage i testinal obstruction shock a sudde critical and postoperative deliri m. The inei dence of lung complications us over 5 perce I an the cases of the patients who survi ed the complications vere much the same as those developing in the fatal cases.

Bloodgood J G Tl Ultimate Res Its and th Actu I Function I Results Afte the Diff ent Type of Operations f r G trie and Du d nai Ulcers f r Ga trie Cance and for Hou Gla Stom I After An Int real f F e Yea

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St John F B A Foll w Up Study of tl R ults
In Surgical Tl erapy fo G st ic and Du den i

Ulcer 1 S g 93

II twell J A and F lter R K Peptic Ulce
Su gical Asp cts Includi g End Re ult 1

S g 93 c 6

BLOODGOOD urges the more frequent cho ce of the Bill oth I anaslomous after resection of the stomach pylorus or duodenum. He states th t in r ce tion for cancer a ide margin of un nvol cd v il is unnecessary. For cases in which the B liroth II

operation must he performed Bloodgood urges a long loop gastro enterostomy and recommends Bal four's modification of Pólya's operation. He he leves that in duodenal ulcer the Finney pyloroplasty with or without local excision of the ulcer is the operation of choice if local conditions allow it. When the Finney pyloroplasty is contra indicated a choice must he made hetween a short loop posterior gastro enterostomy and resection.

For cases of large chronic ulcers of the duodenum especially those adherent to the pancreas Blood good advises resection rather than posterior gastro enterostomy. In cases of perforated duodenal ulcer he rarely finds it necessary to do more than close

the perforation and drain

In conclusion Bloodgood states that a diagnosis of inoperable carcinoma should not be made from the findings of palpation and \(\lambda\) ray examination alone An exploratory laparotomy should usually be done unless there are skin metastases or fluid is present in the peritoneal cavity. Even under such circumstances operation is indicated if obstruction has occurred.

ST JOHN reports the results of gastro enterostomy and partial gastrectomy performed in cases of gastric and duodenal ulcer in the Preshyterian Hospital New York in the period from 1916 to 1920 also the

results of medical treatment in 92 cases

In 119 cases in which gastro enterostomy was done the mortality was 151 per cent Five and nine tenths per cent of the deaths were due to technical error and the others to pulmonary com plications In 76 cases treated by partial gastrectomy the mortality was 196 per cent and 158 per cent of the deaths were attributable to technical error A marginal ulcer was present in 69 per cent of the cases in which gastro enterostomy was done and in 36 per cent of those treated by gastric resection

Follow up records were made at intervals of six months after the operations. After gastro enteros tomy the percentage of patients who were symptom free or had heen henefited by the operation ranged from 86 fo 98 4 and averaged or 8. Of the patients treated by partial gastrectomy 94 per cent and of those treated conservatively or r per cent were rendered symptom free or were henefited. The author emphasizes that in a comparison of surgical and medical results it must be horne in mind that in most clinics surgery is performed in cases of simple ulcer only after medical treatment has failed

HARWELL and FILTER report upon 152 surgically treated cases of peptic ulcer from the Department of Gastro Enterology of the Cornell Clinic The operations were performed in 26 hospitals and by 46 surgeons. There were 171 cases of duodenal ulcer 3 cases of loth gastric and duodenal ulcer and 32 cases of gastric ulcer. The operations included gastro enterostomy P6ba resection Billroth II resection with posterior gastro enterostomy pyloroplasty alone the Billroth I operation sleeve resection and cautery excision combined with gastroduodenos

tomy pyloroplasty with wedge excision and sim ple sutnre In 92 cases of duodenal ulcer gastro enterostomy had an operative mortality of 2 r per cent In 6 cases of gastric ulcer in which it was per formed there were no deaths. In ir cases of duo denal ulcer the operative mortality of Polya resection was 36 per cent and in r2 cases of gastric ulcer it was 17 per cent. In 5 cases of duodenal ulcer in which the Billroth II operation was done there was no operative mortality whereas in to cases of gastric ulcer this operation had a mortality of 20 per cent The primary operative mortality in the whole group of cases was ro 6 per cent In the cases of duodenal ulcer it was 5 9 per cent and in the cases of gastric ulcer it was 2 per cent. The authors draw the following conclusions

1 The efficiency and reliability of \ ray examination in the diagno is of people ulcer has been con

firmed in this series of cases

2 Gastro enterostoms was shown to he a very safe procedure its mortality heing 2 1 per cent when the operation was performed by many surgeons. It gave satisfactory results in 02 per cent of the cases

3 The location of the gastrojejunostomy open ing does not seem greatly to influence the clinical

and mechanical results of the operation

4 Polya resection gave uniformly good results in the small series of cases in which it was done but its mortality was high

D Aunoy R and Zoeller A Sarcoma of the Stomach Am J Surg 1930 1x 444

The authors report 4 cases of gastric sarcoma and review the literature on the condition

Sarcoma of the stomach is a relatively rare neo plasm constituting only about a per cent of gastric

malignancies and ahout 0 25 per cent of sarcomata

in general

It presents no pathognomonic features which will allow diagnosis by clinical or laboratory tests. The diagnosis is established only by histological examination of a portion of the tumor or one of its metas tases. Chinically and by Yary examination gastric sarcoma is most frequently diagnosed as carcinoma or chronic ulcer. It does not appear possible to make a differential diagnosis before operation.

While age is not of importance in the differential diagnosis gastric sarcoma tends to occur in younger persons than gastric carcinoma the average age for the onset of its symptoms heing forty one and six tenths years whereas the average age of onset of the symptoms of gastric carcinoma is sixty one and two tenths years. The average age at which gastric lymphosarcoma occurs is thirty six years

The prognosis of gastric sarcoma is poor hut is frequently said to be better than that of carcinoma of the same region because the sarcoma does not metastasize so readily or at such an early stage in its

development as carcinoma

Trauma a pre existing henign neoplasm and chrome ulcer have heen suggested as possible etio logical lactors Lymphosurcomata of the stomach are usually of the infiltrating variety. They occur in younger per sons than the spindle celled tumors and are less frequently pedunculated. Spindle celled sarcomata offer a much better prognosis as they metastasize more slo. I) and are more readily estimated.

In the year 1929 335 cases of sarcoma of the stom ach including the 4 reported by the authors in this article were recorded in medical literature

Jaco M Mor MD

Da ld V G and Lo ing M Spi net nic Arres ti ia in the Treatment of Paralytic Iteus 1 S g 930 c 7

The authors conclude that the use of splunching unresthests to parally ze the imbilitory nerves of the intestines in the treatment of parally te lieus from peritorists may be of value in local peritorists and the early stages of general peritorists but in severe and extensive peritorists little or no all in the re establishment of intestinal movements 1 to be expected from 1.5 kerts kain. With

Judd E S and Hazeltine N E Tie Re ults of Oper tions to Fre i n of Ulce of the Duo denum 1 S g 93 563

The authors report on the local operations \ hich have been performed for duo lenal uleer at the \lambda \text{Special operation} on the Clinic The first local operation in the Clinic for uleer of the duodenum \(\text{\sigma}\) as a Heinecke \(\text{Nikulicz}\) operation performed in \(\text{Rofo}\) and the fs operation for excision of ulcer of the duodenum \(\text{\sigma}\) as done in

Gastro enterostomy ill probably remain the popular operatin for duodenal ulcer. It is satis f etory in all eases except in those in which second ry ulcers de elop a d those in which harmorrhage

oeeu s and the bleeding may continue

The operat n of e cisson vs developed to pre ent pejunal use and reduce the incidence of bleed ing after gastro e terostomy for harmorrhagic ulcer T r many v ars the local operation consisted in eve s n of the ulcer or destruction of the ulcer of cautery with simple closure of the area in the duo d num Of late it has been thought that removal of the anter part if the pylor e sphincer in addition to e cities a springer of the simple control of the contr

In c ses in hich multiple ulcers are encounte ed and the emov I of all of them is impossible it is probably best t remove the anteri r ulcer close the ope ng in the duodenum a d then complete

the ope at on 1th gastro enterostomy

The loc lope tron limits I to cases in v lich the duodenum is fally mobile. However, with increasing experience these cases the surgeon re lizes that it is not difficult to mobilize a duodenum. In the is fail, y well fired a difficult to mobilize and the should be don it cases in which existent of the licer is definitely indicated.

( astro-enterostom) is part cula ly satisfactory for older patients especially if obstructive symptoms have developed. It is less satisfactory in you g patients

A study of the immediate results of the local operation sho s that it can be done with very little risk. In the 1363 cases covered by this report the mortality vas 0.44 per cent

The ultimate results in this group of cases are practically the same as the ultimate results obtained by gratro enterostomy go per cent of the patients from whom detailed reports have been received obtained satisfactory relief

The local operat in can be performed in ab ut 50 per cent of cases of duodenal ulcer and in these it ill probably gie better immed ate and ult mate results than gastro enterostomy

G rsi on Coh n J Ti e Di gnosts of Early Il execut Tube culosi im J R It I 93

The pioneer work of Stierl n and Prie on the roentgen diagnosis of ileocacal tuberculosis v as I ttle heeded until the work of Brovn and Sampson in 1015 Brown and Sampson placed great reliance on the opaque meal follo ed by serial roentgenoscopic and roentgenographic examinations made at regular intervals from the seventh to the tenth hour after the ingestion of the meal. The findings i hich they regard of ch el importance are filling defects in the ascending colon which appe r in all or nearly all of the serial roentgenograms and are due to spasm arritation and hypermotility caused by the opaque medium in its p ssage thro gh the affected seg ments They consider the ba sum enema of much less value than the barium meal because spasm of the colon following an enema is not necessarily indic ative of pathological changes. Ho e er they regard spasm I mited to the excum after a barium enema as sig ificant

Gersbon Cohen call attention to the fact that it he cases reported by Bro n and Sampson in a hispositive evidence of tuberculo s of the colon has found a tith the use of the ba num meal sache idence was usually found also with the use of the he harmonema. He therefore concludes that Bro n and Sampson are unwarr ntedly prejud ced ag inst the enim He believes that c amination with the cent has muny advantages i that it can be more than muny advantages it that it can be more than the control of the color of th

Cersbon C hen epo ts the findings in 138 cases to rough a truly of the intest es v as made at the Eaglesille Synthetium Eagleville Pennsylva at the techn que employed the opaque medium was injected into the c lon under fluo oscoj c control special attention being paid to spassm and ir tab lity

of the colon particularly on the right side mass peristalsis anastalsis the competency of the ileo cæcal valve the outline of the colon ileocacal valve and terminal ileum and the presence or absence of pain After the fluoroscopic examination a roent genographic examination was made. The patient was then permitted to evacuate the opaque enema Following the evacuation another roentgenoscopic examination was carried out to determine the dis tribution of the residual contents and the occurrence or non occurrence of mass peristalsis either spon taneously or after palpation. Air was then introduced into the colon by means of a Politzer bag attached to a rubber tube 18 in long. The insuffla tion was done under fluoroscopic control and was stopped when the colon was filled. When it was done slowly no pain was experienced. On its completion another roentgenoscopic examination was made and followed by roentgenographic studies with the patient in the supine position and with the roent gen rays directed vertically

In \(\alpha\) i of the cases reviewed positive evidence of leoceael tuberculosis was obtained of 3 reases in which routine roentgenographic studies of the entire gastro intestinal tract by Brown Sampson technique were made in addition to the double contrist procedure ileoceael tuberculosis was found by the former technique in only 16 and in all of this group the microscopic examination of the faces was positive Gershon Cohen therefore concludes that the enema studies give a better concept of the extent and in tensity of the infection than barum meal studies

The double contrast procedure is of great value in revealing irregularities in the lumen of the gut It serves as a check on the findings of the single contrast enema Because of the marked contrast obtained with the double contrast technique the author hoped that he might use a contrast substance which would adhere to an ulcerated urface and not to the normal bowel and thereby reveal early ulcera tion While this bone was not realized the double contrast films disclose many early signs of ileocaecal tuberculosis which cannot be detected in the single contrast films and are not even suggested in serial roentgenograms made after a barium meal Their use renders it unnecessary to depend upon the demonstration of filling defects in the affected seg ments of the colon due to splitting of the barium meal column by those segments The findings fol lowing the barium enema its evacuation and the insufflation of air serve to check each other

In the adult the most common sites of tuberrulosis in the intestinal tract are in order of decreasing frequency of involvement the terminal ileum the regument in experiment in the transverse and descending colon. The author believes that the tuber cless first develop in Peyer's patches or the lymphoid collections in the caccum as it is here that ingested material is first delayed after rapidly passing through the jeinium.

In the first stage of the infection necrosis usually occurs The ulcers may become confluent. The tone

and peristals of the affected segment are increased in the second or moderately advanced stage there is more extensive coalescence of the ulcers with deep extension to the submucosa or muscularis. Lymphatic extension is marked and nodules form in great numbers around the periphery of the lesions in the third or advanced stage the involvement extends over wide areas from the ileocacal region into the perinum and the distal portion of the colon Extensive areas of slough and even false diphtheritic membranes are formed. The walls of the bowel become smooth and rigid and the lumen becomes uniformly contracted. The roentgen findings in the 3 stages may be described as follows.

Stage 1 Long delayed temporary tonic spasms or intermittent and frequent spastic contractions occur The spasms may be of short duration but the periods of relaxation followed by complete filling are often shorter Hyperperistalsis and mass peristalsis are noted. The opaque mass may pass rapidly through the colon for a distance of 12 in before stopping Mass hyperperistalsis is visible not only during the injection of the opaque enema but also after evacuation of the enema and after the insuffla tion of air If it is missed during the opaque enema study its presence is indicated by the complete evacuation of the contrast material from the diseased segment when the double contrast enema studies are maile Anastalsis-refilling of the emptied segment by reverse flow of the opaque contents from the next distal segment when the injection of the opaque material is discontinued-is frequently observed Hypersecretion is a common finding but can be de tected only in the double contrast film. It is due probably to an inflammatory exudation. It is evidenced by uneven adherence of the barium sus pension to the colonic mucosa After evacuation of the enema the residual coating of barium which usu ally clings to the normal mucosa seems to have been washed away by the excess products of evudation and secretion in the diseased areas Therefore in the double contrast film the normal mucosa appears to have retained its smooth uniform coating of barr um whereas the inflamed areas appear to have no coating Pain and tenderne's are almost always elicited by palpation over the c.ecum Incompetency of the ileocæcal valve is usually noted

Stage 2 In this stage the deformities become more marked in the regions of the ileum and execum close to the ileoexcal valve and less marked toward the provimal portion of the ileum. The margins of the carcum often have a crenated or fibrillar outline due to the spastic contraction which is "ssociated with ulceration" Occasionally the lumen is irregularly shortened or contracted. The irregularities are per manent and are visible in all of the films. After evacuation of the contrast enema the double contrast film shows irregularly outlined pools of residual contents between the distorted contracted areas of the imolved colon or in the crater or under the evacuated portions of the ulcers. Irregularities are seen also in the ileum. The normal reorities appears

ance of the end of the ileum in a plane is that of a cone shaped or triangular segment with the apex invaginating the cocum In moderately advanced ileocæcal tuberculosis with ulceration on the fremula around the orifice and on the wall of the ileum just pro imal to the orifce the cone or triangle is in verted Thi is Fleischner's sign

Stage 3 In the third or ad anced stage the c ecum becomes almost obliterated by fibrous contraction Frequently the barium vill not enter the contracted portion but following the insufflation of air the stenosed portion can be vi unlized easily In all of the films the lumen of the ascending colon is marked ly narrowed \s a rule tl e narro ing is greatest in the excum and lecreases to ard the hepatic flexure ALTO OCH VER M D

Soupault R and Seitié G P ivic Appendi itis (Lapred t pel e ) R d h la 193

I clvic appendiciti may occur at any age but is most frequent in the child The appenl 1 1 found in the pel is by an t mists in one third of cases and by surgeons n from 18 to 20 per cent Lo pel 10 appe diciti is in re frequent than high pelvic ap pendicitis. The inflamed appendix he entirely with in the lesser pel is in direct contact vith the bladder and rectum I el 10 esical or rectal symptoms may occ r ery early Rupture of ab ces e into the ab domen i to be feared. In high pelvic appendicitis the danger of pe itoneal diffus on is especially great The appe d v1 att ched in front of the p omontory at the juncti n of the pcl is and abdomen To it authere emploic fringe and loops of small inte tine famile s rroundings for e cysting the infection The focus is difficult to di cove and if operation is delayed peritoniti or occlusion will develop

Dysuma a d pain in the cul de sac of Douglas in a patient he has shown febrile abdominal symptoms and in abdominal palpation gi es negative results constitute the key to the diagn sis of lo pely cappend city If operation a not done re olu tion may take pl ce or there may be diffusion or suppuration The abscess may open into the great pe itoneal cavity through the skin or into the rec

tum hladder or vag na

H h pel c appe dic tis is rarely d agno ed In some cases there appea s to be a simple gastric di turba e ith fe er whe eas in others the symptoms re sugge to e of cclu ion vith a subacute course I ersiste ce or age a ation of symptoms lead to op e ation An illust ati e c se is reported. The au thors di cu the d gnosis of the attack tself and the pelvic bacess in the child the man and the non pregnant nd p egnant vom n

I he pelv c c mplications of abdominal appendic t s are early nd late pelvic absces In Il cases in which the app ndicit's is accompanied by a thick pe iton al eff sion a drain should he placed in the cul de sac of Dougl and the dra nage should he continued fo s me t me The caliber and then the length of the drain should he gradually dimini hed

In case f pelvic append citis seen within forty eight hour immediate operation should be per formed If the course is favorable v hen the patient is seen more than forty eight ho is after the attack the surgeon should wait hile ordering complete rest the application of ice to the abdomen I qu'd diet small warm enemas of a 10 to o per ce t salt solution and op ates. In suppurative appe di citis the cul de sac of Douglas should be drained shate er the location of the appe dix The abscess may be approached by the high route trans peritoneally or hy the low route through the vagina or rectum Occlusion re ult g from pelvic abscess may be treate I by freeing the intestinal loops in the infected focus or by simple lateral fistul ation of the dilated small intest ne Vesical or e te e cal fistula of the appendix itself or of an adjacent in testinal segment must be operated upon afte the inflammatory symptoms have decre sed

Dea r J B An Opini n on the P s nt High Operative Mortality in Acute App ndicit S & G) c = Ob! 93 1 59

In Devers opinion the reasons why patients with acute appendicitis are frequently not seen by the surgeon until after the occurrence of perio ation of the appendix or the development of gangre e or extensi e suppuration are that they have been purged they did not call the phys cian ea 1 eno gh or if the physician vas called in time he failed to recognize the condition or tried e pectant treatment and deferred operation. The operative mortality i acute appendicitis 1 high because the time for oper ation is not well chosen or because if opportunely timed the operation was incomplete because of the surgeon's poor judgment or his lack of experience in the treatment of append citis or both

In cases in which peritonitis has developed Deaver has found auscultation of the abdomen a ve y valuable means of detecting the lesion. He states that the stormy the turbulent and the silent belly are significant of stages of peritonit that is they indicate whether it is circumscribing circ mscribed diffusing or diffused. In the early stages of peritoneal unitation very del cate palpation will often reveal the presence of serous fluid It i important to determi e the position of the appendi. rule the appendix is located at the site of the m st marked to derness and rigidity. A deep pelvic post tion ill require deep pressure to elicit tenderness and often lead to a mistaken diagnos of divert cu liti of the sigmoid

If the di The cru of the problem is diagnos nosis is properly made at means operate in The ne t important considerations are the choice of the time for the operation and the operative technique. The e are dete mined very largely by circumstances and the surg cal judgment that comes only with expe rence Therefore it is dilc lt to formulate rgd guiding pri c ples In acute appendicitis operatio should be done before the onset of pe it n to if possible The early case of acute ppendicit's demands immediate operation. The indication for drainage and often the outcome of treatment depend upon the character of the evidate as revealed by a smear taken from the operative field, the surround ing area and distal points and upon the appearance of the peritoneum at and around the site of the lesion. When the pathological reports are negative as regards infection. Deaver drains only in the presence of a green peritoneum and a subperitoneal evidate. In such cases drainage is necessary since occasionally, the exudate does not resolve but forms an abscess.

Deaver does not believe that acute appendicuts always necessitates an ammediate emergency oper ation. He emphasizes that surgical judgment is required to decide when to operate and when not to operate offer requires the greater deliberation. Chill abatement of the pain and a drop in the temperature are three

signals calling for immediate operation

The time at which operation should be done after peritomits has developed depends upon the type of the pentonits and the patient s condition. In practically all cases of circumscribed pentonits operation can be done safely at once if the proper technique is used. In circumscribed pentonits with adocess immediate operation with a proper technique is safe unless there are forbidding systemic or other conditions which in these days of spinal amosthesia are not numerous. The technique in circumscribed pentonitis is described in detail.

In circumscribing peritonitis that is cases in which the infection shows a tendency to become localized Deaver employs anatomical and physio logical rest the Fowler Murphy Ochsner treatment which is known in his chinic as regulation treatment. With few exceptions the circumscribing peritonitis becomes circumscribed under this treatment and permits operation with little risk of death when there has been a flare up and the circum scribing peritonitis has advanced to a diffusing peritonitis. Deaver prescribes anatomical and physiological rest to allow the peritonitis to localize.

In the presence of au abscess in the region of the ileocæcal junction the terminal ileum is often in filtrated thickened and stiff and forms a part of the abscess cavity Under such conditions Deaver evacuates the abscess removes the appendix es tablishes drainage and then does an ileocacostomy or an ileocolostomy to prevent postoperative ob struction and insure a smooth convalescence When an abscess is in the immediate neighborhood of the excum and especially near the terminal ileum and when the lesson is not an abscess but a definitely in flammatory area that would favor adhesions of that portion of the ileum which is so prone to fall in con tact with the abscess and thus cause obstruction he uses a cofferdam of rubber tissue so that when be has placed it and lightly packed the cavity within the dam will be held up out of harm s way

Diffusing peritonitis is a more serious condition In this type the patient appears very sick the pain is very acute and the tenderness and rigidity are distributed over a larger area than in circumscribed pentomits. Penstalsis is feeble or absent over the area of pentonitis but eraggerated over the sur rounding region. In such cases Deaver postpones operation until the pentoneal inflammation has subsided or has been controlled to the point of safe surgery by anatomical and physiological rest

In diffused peritonitis postponement of operation is usually best. However if the case is seen very early when the belly walls are still rigid operation

b) an experienced surgeon promises most

A collection of pus in the pelvis or either thac region can be evacuated by an extraperatoneal approach in the pelvis by vaginal or rectal incision and above the pubis by a low midline incision after emptying of the bladder A subdiapbragmatic col lection may be evacuated by removing the greater part of the tenth rib A subhepatic collection may be drained by an incision through the loin if it has extended well down into the renal well otherwise the incision should be through the anterior abdominal wall At operation Deaver inspects the external paracolic furrow for pus If pus is present the wound is enlarged upward and the subdiaphrag matic and subhepatic spaces are explored. If pus is found in these regions drainage is established by means of a rubber tube or by a cigarette drain carry ing a central rubber tube. Next the pelvis is ex plored and drained if pus is found. In addition a narrow eight layer piece of gauze long enough to reach the inner boundary of the perstoneal wound is placed between the parietal and the visceral perito neum. The paracolic groove is loosely packed with moist gauze and interrupted sutures of silk or silk worm gut preferably the former are carried through the entire thickness of the edges of the wound and tied loosely to prevent eventration. This procedure leaves an open wound and permits free drainage The purpose of the long piece of gauze between the layers of peritoneum is to excite peritoneal activity and exclusion of the general peritoneal cavity Silk sutures are more stable than sutures of silkworm gut because they do not break or become untied When pockets of ous are found between coils of bowel they are emptied and drained by strips of rubber dam or soft rubber tubes. In nearly all cases with pus pockets postoperative bernia develops

The time for the removal of the drain and gauze should be decided by the surgeon. It is better to leave drains and gauze in place too long than to take

them out too early

The only cases in which Deaver does not remove the appendix primarily are those with a Circum scribed abscess of several days standing in which there is no evidence of surrounding pertionitis and the appendix is not seen or felt. However in such cases he performs appendectomy a short time after wound healing is complete. In all others he performs a primary appendicectomy since in many instances the removal of the appendix reveals an abscess which if not drained would lead to a serious if not

ance of the end of the ileum in a plane is that of a cone shaped or triangular segment, it the aper invaginating the cacum. It moderately advanced ileocecal tuberculosis with ulceration on the frenula arount the orifice and on the walls of the ileum just proximal to the interest the cone or triangle is in verted. Phis is Heischner's ign.

Stage 3. In the third or advanced stage the execum becomes almost obliterated by fibrous contraction frequently the banum will not enter the contracted portion but following the insufficient of art the stenosed portion can be visualized easily. In all of the films the lumen of the ascer dings closs is marked by narry ed. As a rule the narron gas greate 1 in the execum and decre ses toward the hepatic decure.

\*\*LT\*\* Och if it is the stage of the same is the same and decre ses toward the hepatic decure. The same is th

I elvic appendicitis ma occur at any age but is most frequent in the child. The append v f un! in the pelvis by anatomists in one third of cases and by surgeo s n from 18 t 20 per cent I or pel ic appendic tis is in re-freq ent than high pel ic appendicitis. The inflamed appen is lesentirely ith in the lesser pelvis in direct contact with the bladder and rectum Pelvic esical r rectal symptoms may occur very early I upture of abscesses into the ab domen is to be fe red. In high pel is appendentis the danger of pent ne I diffusion i e recially g eat The append v att ched n front t the pr m nt ry at the juncti f the pel is and bd mer adhere ep pl ie ir ngcs nd loops of small inte tine fragile surroun li gs for encysting the i fection The f cus is difficult to discover nd if ope att n is delayed peritonitis or occlusion vill de el p

D) sure and pain in the cut de sac of Douglas in a p tent who has show febrile abdominal symptoms and in whom bedominal palpation or es negative results constitute the key to the diagn sis of ly pelvic appendicuts. If oper tun is not do ne re litton may take place of there may be diffusion or suppuration. The becess may open into the gre t perifoneal cavity, through the skin or into the rectum blud for or vasina.

High pel c appendictus is rarely diagnosed. In some cases there appears to be simple gastine disturbance with fell or a hereas in others the symptoms a e suggestive of occlusin in the subhactic curse is existence or aggravation of symptoms leads to operatin. An illustrative case is reported. The authors discuss the diagn is of the attack stell and the pel c abscess in the child the man and the non premain and item to yoman.

file pels c complications of ab formula appendix its are early and late pelvic absce s. In all cases as hitch the appendicitis is accompanied by a thick peritoneal citiusion a drain should be placed in the culd de sac of Douglas and the dramage slould be contilued for some time. The caliber and the nith length of the drain should be gradually do min ted

In cases of pelvic appendicitis seen within fortieight hours immeliate operation should be per formed If the course is fa orable when the patient is seen more than forty eight hours after the attack the surgeon should vait while ordering complete rest the application of ice to the abdomen I quid het small varm enemas of a 10 to 20 per cent salt solution and opiates. In suppurative appendi citis the cul de sac of Douglas should be dra ned whate er the location of the appendix. The ab ce s may be approached by the high route trans pentoneally or by the lo route through the vagina or rectum Occlusion resulting from pelvic abscess m 3 be treated by freeing the intestinal locos in the infected focus or by simple lateral fistul ation of tl e dilate I small intestine Vesical or enterovesical f stula of the appendix itself or of an adi cent in testinal segment must be operated upon after the inflammators symptoms hase decreased

#### Deter J B An Opinion on the Prent High Operation Martility in Acute Appendicities S g Cyn C & Ob 1 103 1 5 0

In Dervers opinion the reasons why patents is the acute appendents are frequently not seen by the surgeon until after the occurrence of perforat in of the appendix or the development of ganger e or exteas e surpuration are that they have been purged they find not call the physician early enough or if the physician was called in time he failed to recognize the condition or time deprectant treatment and deferred operation. The operatic e-mortality is acute appendixtis is high because the time for operation is not well chosen or because if opportunely timed the operation was accomplete because of the surge in a 5 oor judgment or his lack of experience in the treatment of append cities or both.

In cases in which peritoritis has de doped Dea or bas found auscultation of the abdomen a very saluable means of detecting the lesion. He states that the stormy the turbulent and the silent belive are signif cant of stages of peritorint that is they a dicate whether it is necumerating circumstrated filusing or diffused. In the early stages of peritorial that is they are stated in the early stages of peritorial the research of servois fluid. It is important to determine the position of the appendix As a rule the appendix is located at the site of the most marked tenderne's and rigidity. A deep pel is position will require deep pressure to cheft tenderness and often lead to a mistaken diagnos's of diverticults of the sugmoid.

The cruv of the problem is diagnos if the diagnosis is properly made it means operation. The next important considerations are the choice of the time for it experition and the operative technique. The care determined very largely by circumstances and the surgical judgment that comes only with e.p. erience therefore it is difficult to formulate rigid guiding p norples. In acute appendict is operation should be do e before the onset of peritointy possible. The early case of acute approndicts fæces reach the distal part of the colon or the rectum in normal time it is reasonable to conclude that the underlying pathological condition is in the distal part of the large bowel However the pathological anatomy in such cases differs from that in Hirsch sprung s disease The rectum may he unduly dilated but the dilatation is not accompanied by hyper trophy of the muscular coat indeed in long standing cases the muscular coat is atrophied. The underlying factor is probably a gradual rising of the threshold of the rectal sensory nerves to the presence of faces in the ampulla due to long continued deliber ate neglect to answer the call to defecation Rankin and Learmonth helieve that the operation should he considered in such cases on the hypothesis that in terruption of the inhibitory nerves to the rectum may permit a readier response of the rectal mus culature to such reflex stimuli as reach the intra mural plexuses

The postoperative course of patients suffering from Hirschsprung s dueses will be different from that of patients suffering from rectal constipation. This must be emphasized. More immediate benefit is to he expected in the former for after the operation the hypertrophied musculature of the colon is immediately available for effective peristalss. It cannot be expected that completely normal deface, ton will be restored at once for time will be required for partial or complete readjustment of the organic changes in the colon and rectum to the altered neuromuscular control. However judging from the case herewith reported satisfactory defacation he guis sufficiently soon to obviate a long course of medical treatment.

In cases of rectal obstipation not only is hyper trophy of the muscular coat of the bowel absent but also the long continued distention of the rectum leads to atony and even atrophy of its musculature All that can he hoped for is that the rectum will be placed under he most favorable conditions for function A long course of after treatment will be necessary to re educate what remains of the rectal musculature so that it will contract on stimulation

# LIVER GALL BLADDER PANCREAS AND SPLEEN

Miller R H Acute Cholecystitls Ann Surg 1930 vcu 644

The author believes that acute surgical chole cystitis with all of the symptoms and signs of acute inflammation distention and ordema of the gall bladder rarely occurs in the absence of stones

He states that the thickened gall bladder cannot distend rapidly following obstruction of the cystic duct. Therefore infection is able to penetrate its wall and produce a contiguous absects. The rapid distention of a thin walled gall hladder causes excruciating pain which is not easily controlled by morphine whereas the slow distention of the thick, walled gall bladder causes pain that as a rule can be controlled without difficulty.

It has heen taught that operation should he de layed until the acute infection has subsided in order that the patient may be in better condition to with stand it and there will be a greater chance of per forming cholecy stectiony instead of cholecystostomy. However in 2 of the author's cases perforation oc curred while subsidence of the infection was awaited Miller therefore questions the advisability of post poning operation in all cases

When acute infection of the gall bladder is treated conservatively there are a possibilities (r) subsidence of the infection (2) perforation with the formation of a local abscess and (3) perforation with the development of general pertionits. Miller questions whether our ability to predict the outcome is sufficient to warrant delay of operation.

The records of 200 consecutive cases which were operated upon for acute cholecy stitus state definitely that stones were present in 160. In the records of 40 cases (20 per cent) no mention of the presence or absence of stones is made. Miller believes that there were not even as many as 40 cases without stones that in some of the records in which stones were not mentioned the surgeon merely neglected to record them In the records of 74 cases (37 per cent) it is stated that there were no adhesions about the gall bladder. In the records of 120 per cent) the presence or absence of adhesions is not stated. The fact that there was no walking off in from one quarter to one half of the cases shows the danger of spreading infection in case of perforation.

Twenty seven (13 5 per cent) of the patients ded In the fatal cases the average length of time from the onset of the condition to the operation was fif teen days whereas in the cases with recovery it was eight and three tenths days Of the fatal cases local perforation occurred in 8 but general peritorities occurred in none Cholecystectomy was done in 14 of the fatal cases and cholecystostomy in 13. Of the patients who recovered 75 per cent were treated by cholecystectomy

The author concludes that in the cases of patients who are in poor condition but whose symptoms are not very acute operation may be delayed for twelve hours to allow for pre operative preparation but that in cases with persistent fever tenderness and spasm and especially cases with severe pain which is not easily controlled it should be undertaken with out delay of the Mentage M D Stankey H Mentage M D

Jones N W and Palmer D L Observations upon Chronic Gholecystitis with Special Reference to Motor Disturbances of the Gastro Intestinal Tract in Relation to Pre Operative and Post operative Symptoms Am J M Sc 1930 clxxx 531

The authors helieve that in the roentgenological diagnosis of gall bladder disease too much relance has heen placed on the results of the use of dies. The procedure which they have found most satis factory is the George and Leonard direct method supplemented if necessary by the Graham Cole

test. They state that a factor o erlooked a hen the method of George and Leonard is discarded is that alteration in the chemistry of the gall bladder a all and possibly in the bile occurs with die case an I may have something to do with the production of shad own in the direct renetreenograms.

In 4 820 cases in which an examination for gall bladder disease as made the clinical diagnosis was based on the folloting evidence

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Chemical analyses of normal and pathological gall bladders and their contents showed that as the cal rium content increased the shadon produced by the gall bladder on the film became denser. The calcium content varied from 0 op per cent CaO dry eight in presumably, normal gall bladders which cast on shadow to an inverage of 0 of per cent dry, weight in gall bladders which cast a dense shadow on the divert film.

The authors belie e that the diagnosis of chronic cholecystit's loes not necessarily demand sure cal treatment of 1 339 potents ith this condition only 42 per cent under sent operation. The remaining 58 per cent ere given relief by dietetic and other non surecal measures.

Of the patients operated upon for mild chr me cholecystitis only 22 per cent were releved of their symptoms 1 ithin the period of surgical con alessence. Se enty eight per cent continued to have distress of 1 a table intensity o er periods of time ranging from a month to more than it 10 5c ers. The chief cau e of the failure of operation to releve the 30 mptoms was persistence of motor d sturbances in the gast; intestinal tract.

In conclusion the authors state that while the technique for visualization of the gall bil deer by the direct method is more arduous, the fact that it leads to a correct diagnosis in 96 per cent of the cases justifies the added elfo t necessary for is use

NORM N G PARRY M D

Lah y F II External and Internal Biliary Fis tulæ Following Choi cystectomy in 5 g 193 x 1 649

The author pre tously reported to a transplanta tions of complete external biliary fistule. In this

article he reports eight others. Say of the patients are free from symptoms one had a recurrence of the external fatula one has had frequent attacks of intermuttent businy obstruction, and two died from the operation.

The most important surgical principle in this operation is the preservation of adequate vascul ri zation This is attained by leaving the f stulous tract attached to the undersurface of the liver. The tract is cored out from the abdominal nall down to its attachment to the liver A short section of rubber catheter is inserted into the fistula and anastomosis effected between the stomach and duodenum or jejunum If the anastomos sis made to the stomach the latter is drawn through an incision in the omen turn which has been reflected onto the hepatogastric ligament The anastomosis is therefore essentially extraperatoneal. An incision is made into the stom ach and through a counter incision the end of the f stuly with its attached rubber tube is dray n into the stomach and sutured in position. The adjacent portion of the stomach is then fixed to the under surface of the liver If the duodenum or jejunum is used for the anastomosis it must first be immobilized

In the ten cases of complete external fastula reported by the author there's ere four internal bit ary fastulz: but as none of the spontaneous fastula be t veen the atomach or duodenum mas of sufficient size to prevent back pressure and justudice it size necessary in each case to detach the internal fit tula and catablish a complete esternal fastula.

Spontaneous internal b lary fistule are at times the cause of fadure of external bil ary fistule to re main open until they are ready for transplantat on The author has pre ented this complication by the transcriptional method of transplantation deer bed

The stomach is best employed for the anastomosis because it tolerates bile i ell and because if a fistula occurs it is less serious in the stomach than in the duodenum Sr NLEY H MENTER MD

Guerry LeG Reconstruction of the Bile Passages
viti Special Ref rence to Hepaticoduoden to
my 1 S 1 93 zc 663

When surgical reconstruction of the bile passages is necessary duret anastomosis between the b it passages and the duodenum g ves the best results. Most fa hires of autoplastic ree astructions are due to contraction of the transplanted issue. Contraction that the structure transplanted has an extensive them the structure transplanted has an extensive them the structure transplanted has an extensive them. The structure transplanted has an extensive transplanted for the structure transplanted and sufficient to the reconstructed duct and sufficient transplanted for the structure transp

Fo seven cases 1 Inch he pre tously reported the author adds t o more in buch direct anastomosis as done In the four cases n high it as possible to unite the hepatic duct to the duodenum directly there as no mortality and a thoroughly sait fac try symptomatic cure was obtained.

STANLEY II MENTZER M D

Topcibasev M Recurrence of Pain After Operations on the Bile Ducts (Ueber Schme zrezidive nach Operationen der Gallengaenge) L teor z prakt Med 1030 iv 421

This article is based on twenty two cases of recur rence of pain after operation on the bile ducts. The most frequent cause of true recurrence with symp toms similar to those preceding the operation is overlooked stones As evidence thereof the author offers in addition to numerous citations from the literature the following observations (1) the spon taneous passage of stones in the fæces following an attack of pain two months after the operation () the discovery at autopsy after unsuccessful reoperation of a stone half the size of a pigeon's egg at the site of confluence of the two hranches of the hepatic duct and (3) the spontaneous passage of stones through the drain five days after cholecystec tomy and dramage of the common duct. In one of the author's cases in which stones were removed from the gall bladder and no other stones could be palpated two stones were found in the mucosal folds

of the extirpated gall bladder

For the prevention of recurrence removal of the gall bladder is advocated. According to the author's experimental studies dilatation of the hile ducts rarely occurs after this procedure Stasis occurs in the bile ducts only when there is interference with the flow of hile into the duodenum. When the com mon duct is found changed and distended at opera tion it should be opened and drained. In cases with chills fever and jaundice before operation this step is indicated absolutely. As infection cholangeitis hepatitis and pancreatitis frequently lead to recur rences the elimination of infecting agents by drain age is necessary. In cholangeitis grumous masses containing cholesterin calcium pigment and hile sand are often formed in the liver and cause attacks of pain. In one patient operated upon three days after an attack a pultaceous mass was found filling the gall bladder and common duct. In another case in which operation was performed for typical recur rent attacks of pain there were no abnormal findings in the gall bladder or common duct but the liver was greatly changed macroscopically and biopsy dis closed the presence of hepatic cirrhosis Improve ment was noted after treatment with iodine was

Adhesions produce severe symptoms only when they cause displacement of organs kinks or compression of the pylorus or duodenum. Even extensive reentgenologically demonstrated adhesions and incisional herms often cause no symptoms. Not in frequently symptoms persist after operations which are done without adequate indications. In such cases the old pains persist because they had no relation to gall bladder disease. Re operation is indicated only by severe frequently recurring pains. When there is bigh fever or interest the gall bladder must be opened and drained. When the flow of bile into the duodenum is obstructed choledoboduodenostomy is necessary.

De Takáts G Ligation of the Taif of the Pancreas in Juvenife Diabetes Fndocrinology 1930 viv 55

The regenerative power of the pancreas has been established by numerous clinical observations. Of all structures the ducts and islets are most resistant to local destructive processes and seem to have the greatest growth potential. Various pathological conditions destroy a large amount of pancreatic tissue. Whether the insular activity becomes insufficient or not depends upon the rapidity with which pancreatic destruction takes place. In acute pancreatic necrosis high blood sugar and abnormal sugar tolerance curves are almost the rule and glycosuria is not un common. However, the sugar tolerance gradually returns to normal. In cases of carcinoma of the head of the pancreas glycosuria is seldom observed and when it occurs is only temporary.

In experiments on dogs hypertrophy and hyper plass of the salet tissue have been recognized and reproduced repeatedly. Ligation or complete separation of the tail of the pancres produced evidence of hypertrophy and hyperplasia of the islet tissue rapid cessation of the external secretion from the separated tail and in correspondence with the his tological findings increased carbohy drate utilization. The sugar tolerance was increased from three to four months after the operation and then in the normal dog gradually subsided within a year.

With regard to the question as to whether hyper trophy and increased islet function can be brought about in diabetes the author reports two cases

The first case was that of a boy thriteen years of age who had suffered from diabetes of increasing severity for six years. The condition was finally stabilized for two years by a diet containing rao gm of glucose and 40 units of insulin. At operation the tail of the pancreas was found hy populastic and was divided with the high frequency cautery. Convalescence was stormly but today a ear and a half after the operation, the patient is growing and gaining weight normally. While his insulin requirement is but slightly dimminshed be is able to uthize an

additional 80 gm of dextrose daily The second case reported was that of a boy of six teen years who bad been known to have diabetes for two years and whose tolerance was rapidly becoming less The patient was given a pre operative diet con taining 300 gm of carbohydrate 75 gm of protein 100 gm of fat and 35 units of insulin three times a day Under local and nitrous oxide anæstbesia the tail of the pancreas was exposed and a strip of fascia lata tied snugly around it The abdomen was then clo ed without dramage. The patient made an un eventful recovery and left the hospital on the four teenth day Four months later the insulin require ment fell to 18 units with a glucose value of 120 gm The following month the high carbohydrate and low fat diet was changed to a low carbohydrate and high fat diet with a corresponding reduction in the insulin Later a severe chicken pox infection ag gravated the sugar tolerance \t present the glu

cose value 1 up to 230 pm and the insul n can be reduced to 55 units daily

The parallelism bets cen the experiments on am mals and the obser ations in the two climated c ser riported is striking. The tolerance changes gradually at boot the fourth month. It does not persest at its highest level but gradually returns to slightly above the preoperate (else). The assumption that an islet hypertrophy takes place in the diabetic child could not be verified hi tologically. The described operation with resulting super regineration of the islets does not hit at the time cuse of diabetes. Unless ve succeed in protecting the new islets from the injurious effects of ner ous or hormonal origin they will not function any more efficiently than the original cell.

The author reports a series of experiments to blood of the spleen and the action of any such hormone on the spleen and the action of any such hormone on the normal an mal Blood from the splenne ver injected into the jugular vein of a normal at imal caused a reduct on in the blood pressure and an increase in the size of the liver \(^1\) is the injection of acts leftolin has a similar effect when the prince pile or hormone of the spleen. This active prince pile or hormone of the spleen. This substance pile as role in the hydraukes of the blood is earn and acts synergistically with adrenalin \(^1\) I oct \(^1\) boy \(^1\) MO \(^1\)

Payn R L The Relati n of t1 Spicen to Jaun die J Am V i 03 c 064
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Ivy A C Plysiological Di turbraces incident to
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I ANNE says that the spleen m , distroy rel blood cells by an intracellular process which is dependent on the act n of the mare phages or by an extra cellular act n which must be distinctly a lytic trocess

In the presence of jaundice socrated with en largement if the spleen it is c doen that there is both an intrahep t c and an extraheptite formation of ble pigme is The c it hepatics succe to blue p gments i in the reticulo endothelial system in which the spleen probably plays a munor part and the home marrow is the chief depot for bifurdion formation A careful revi wo the literature shows nothing to prove a c ntr lling influence of the spleen on the formation of bile pigments in the hier.

From the facts determined by research which he e been reported in the literature to date Payne I at a

the follo sing concl sions

r A ce tain am unt of re l bloo i cell destruction take pl c n the spleen

2 \ certain amount of bilirub n is formed in the spleen

3 The amount of red blood cell destruction and fairrubin formation in the spleen is relatively small as compared with the consummation of these func

tions el e there in the bods

4 In e aluation of the relation of the spleen to journize at must be borne in mind that hyperb li rubinarima associated vith dysfunction of the spleen is dependent not only on the spleen but also on the et the harmatopo ette sistem. I attitually must it be remembered that there is commonly an associated hepatitis in which failure of the I ver cells to filter bile p gments represents an active rôle in the proluction of the sjundice.

BLYAFYHORN d cusses chiefly betructive j un dice lie states that in the study of cases of jaundice one of three procedures is generally folloyed

r II there is a history of colic one argues from cause to effect and c includes that the stone causing the c lic obstructs the duct

2 Tests for liver d sease or tests of h er functi n are done and the fi ding of h er f sease or d's ordered function is regarded as excluding obstruction by substituting another cruss.

3 The 3 mptom of jaund ee 1 studied to see whether obstruction of the fucts alone could gi e

such a di tribution of bile pigment

The author discusses these three procedures ife d scusses allo the van den Bergh test upon

hich he does not place much reli nee

The chief purpose of it carticle is to emphase the value of the acterus index and examination of the duodenal contents and faces in cases of definite uncomplicated obstructive joundine. Blankenhorn befer es that instead of old taming help from the physician in the problems of joundee the surgeon should furn help to the objection.

It is decisises the toricity of the bile it or lam age lack of ble in the intestine and nephrit in obstructic juind or. He concludes that there is not enough or lience to permit a positive statement as to the cause of death. He is quisased sub the condition of the heart, the clotting of the blood and the load calcium.

In summar ing he says that obstructive paundice is associated with the inliure of a number of physiological mechanisms but it is not known hich one is primarily concerned in the de clopment of the condition. The fundamental nature of the reaction involved in the production of the physiological disturbances is not completely understood. The therature additional threat of the conditional threat of the involvability of the will had the administration of cold liver oil and calcium is of value in the treatment.

Tamontan \ Banti D sease (Sul m b d
Bat) R g t d et et p 193 v

The author reports in detail three case of cryptogenic splenomegaly accompaned by an em a and leuropænia without involvement of the liver. He states that a constitutional disturbance may precede the splenic enlargement but it is difficult to de termine the duration of the condition because of its insidious course

Splenic anomia of the Griesinger Banti type seems to be the same as Banti s disease the two conditions representing only diverse reactions to the same cause. A determining factor in Banti s disease may be a disturbance in the correlation between the spleen the glands of internal secretion and the hamatopoietic organs.

The results of \ ray therapy in Bantis disease are not encouraging. In the cases reported by the author splenectomy was followed by improvement

A Louis Rosi M D

#### MISCELLANEOUS

Gatewood Subplirenic Abscess Am J W S 1930 clxxx 398

This article is based on a review of the literature and forty one cases observed in the Presbyterian Hospital Chicago during the past ten years. The mortality of the condition is 30 per cent. Of the cases reviewed the focus of infection was in the stomach or duodenum in fourteen (perforated uclear in twelve perforated carcinoma in two) in the appendix in ten in the liver or bile passages in seven (liver abscess in two suppurative bollecystitis and cholangeitis in five) in the kidney region (per nepbritic abscess) in three in the pancreas in one in other abdominal viscer in the process in one and in a remote site (carbuncle of the neck) in one

The author emphasizes the importance of propby lavis by the prompt elimination of appendiceal and other contributory causes and by adequate drainage and the use of the semistimg position in the treat ment of abdominal infections

In conclusion he states that the possibility of subphrenic abscess should be considered in the case of any patient who does not show the expected im provement after an abdominal operation

HARRY W FINK M D

## GYNECOLOGY

#### UTERUS

Schoe le M Histogenesis and Morpi og nesis of the Uterine Myoma (7 r H t n i M rph g es de Uteru my me) t h f G<sub>3</sub> h 93 c l 9<sub>5</sub>

The author has attempted to classify myomaty in groups according to the degree of differentiation of the mother cells. For a satisfactory explanation of the origin of these tumors the assumption of the exsistence of my oblistis is necessary. Schaper and Cohen demonstrated in many tissues the presence of centers if germination some of . Inch are in the form of

indifferent or non differentiate I zones In epithelium ith its appositional form of gro th to card the sur face conditions are relatively simple an I evilent The growth of the uterine muscle is essentially inter stitial and germinative cell are diffused throughout the muscle of the uterus \ large percentage of the histiocy tes and cells in the a lventitia of the small vessels may be myoblasts. As they present a noncharacteristic at pearance and do not stain ell tley cannot be identifed individually. Only when they are markedly increased in number as in pregnancy and inflamm tion does the diagnosis gain in proba bil ty The character of these myoblasts is deter mined by their inherent ability to proliferat development into more or less differentiated muscle f bers does not occur through ripening or maturing of the myoblasts ie as a continuous process but progresses interruptedly by e olutional stages in hich on di ision the mother myoblast retains its

characteristics hereas the daughter cell shots a slight advance to ard differentiate in The daughter cell acts in the same ay as the mother cell and I produces a grandd ughter cell which in turn exhibits a slight advance toward the different ated muscle fiber

The process of development described necessitates the assumption of unequal or non uniform cell division 1 hich is 5 me hat opposed to accepted theories of histologia die elopment. That unequal division by hich the to excells differ from each other may occur is known in from the phenomena of embryonic development—differentiation of the germ layers organ anlage etc. That the same phenomenon may occur also in the mature organ is evident from the following first.

From the 'n neer stud es of Scharer and Cohen we han that every organ contains germanature een ters from which the elements used up in function are replaced. Histological demonstration of the fact has been obtained hos ever in only a few organs. Regeneration of the intestinal or uterine mucosa proceeds from non differentiated or indifferent zones (crypts fund if the glands) he have no organic.

function and ser e only for regeneration. If after mensituation for example all of the germinative cells became differentiated as a voild probably be the case in a process of uniform division and continuous development no undifferentiated cells no lidemann for regenerative purposes and regeneration could not occur after later mensitual periods. To a certain degree the centres of regeneration become exhausted physiologically and thus lead to aging of the organ.

It is therefore evident that every organ consists of two entirely different elements the one a germinative elements ith cells having no other function than the g ving off of cells with the capacity for differentiating int the functioning element and the other a functioning element with greater or less differe tiation which conserves the purposes of true function of the organ Whereas in normal tissues these processes are governed by requirements in tumor gro th they proceed wildly until the proliferative capacity of the my oblasts is exhausted. The duration and extent of growth (proliferation) depend entirely on the vitality of the mother cell The farther this cell is removed from the differentiated cell (as for example in young organs) the greater is its gro th potence and the closer it approaches in differentiation the mature muscle cell (senescence frequent pregnances me tritis) the sooner all the process of proliferation reach its end Thi explains the frequency of myoma in nulliparm and women who have borne a fe children

Meyer advanced a similar hypothesis but suggested as the ong n of myomate the normal cell groups of youthful (i.e. approaching the embry out) claracter. In the author's opinion well matured cells may also di ide. Is mother cells for the devel opment of the myoma ho ever only undifferent ated myoblasts are to be considered.

In conclusion the author attempts to describe the general character of a tumor e hibiting the phe nomer a of strong and rapid growth benignancy and malignancy Initially determinative is the r rolliera tive potence hich in every myoblast has a definite limit and is greater the more nearly the cell ap proaches the beginnings of development the more embryonic ts character Upon this characteristic depend the ultimate size of the tumor and the rap di ty with which it ages in essential characteristic of malignant tumors is a strong proliferative pot er Another characteristic is rapidity of growth which is determined by two factors—the first the capacity for proliferation with which the rap dity of growth increases and lecreases and the second the change hich the cell must undergo to become a tumor cell The second factor exh bits m rked qualitate e d f ferences and t a greater or le sextent overcomes the

normal limitation of growth Upon the degree of this unrening of the process of proliferation depend the rate of growth of the tumor and its benignancy or malignancy. The character of a given tumor is there fore the product of the proliferative power stored up in its cells

Hans Neumann (G)

Novak E and koff A k. The Ovarian and Pi tutary Changes Associated with Hydatidi form Mole and Chorionepithelioma Am J Obst & Gynce 1030 xx 481

This article is based on a study of two cases of hydatiform mole and two of chorionepithelioma in all of which the ovaries were available for study In one of the cases of chorionepithelioma a histological study of the pituitary gland was also possible. The importance of such observations is especially great at the present time because of recent developments in our knowledge of the physiological interrelation ship between the ovaries and the anterior lobe of the pituitary gland The remarkable hyperreactio luteinalis which probably occurs at some stage in every case of hydatiform mole and chorionepithe homa but which does not always assume the form of so called multiple lutern cysts is definitely comparable to the ovarian changes produced by implan tations or injections of the anterior lobe of the pi tuitary gland Histological studies such as those included in this report and biochemical studies re ported by others leave little doubt that the anterior lobe of the pituitary gland is the immediate cause of the lutein hyperreaction occurring in the ovaries in such cases The authors studies indicate that the hyperluteinization involves both the granulosa and the theca interna

Histological study of the anterior lobe of the pituitary gland in one of the cases of chorionepithe lioma reported by the authors showed an abnormally marked and persistent pregnancy reaction. This observation offers a histological explanation for per sistence of the pregnancy reaction long after removal of the primary tumor which has recently been re ported by several gynecologists The ahnormally persistent pregnancy reaction in the pituitary gland is due no doubt to the presence of considerable masses of trophoblastic tissue in the metastases In short the evidence indicates that the interreaction is triangular the trophoblastic increase heing re sponsible for the pituitary reaction and the latter in turn calling forth the abnormal ovarian response L L CORNELL M D

Ehrhardt K. Chorionepithelioma and the Asch heim Zondek Reaction of Pregnancy (Chonon ep theliom und Sch angerschaftsreaktion AZR) Ze traibl f Gynack 1930 p 1538

Ehrhardt reports a case of chononepithelioma malignum in which he determined the content of hormone of the anterior lobe of the pituitary gland in the urine The patient was a thirty year old word with the patient was a thirty year old word and one half years after the spontaneous ex

pulsion of a hydatid mole. The gynecological find mgs were not entirely clear. Curettage was post poned until a hormonal analysis of the urine could be made. The Aschheim Zondek reaction was positive in undiluted urine and in urine diluted up to minely times its volume. From these results Drhandt reckoned a content of 90 000 mouse units of the hormone of the anterior lobe of the pituitary gland per liter of urine.

Curettage disclosed a mucous membrane loosened by decidual change without any evidence of chorion epithelioma. The patient died. Autopsy showed chorionepithelioma malignum of the right angle of the fundus of the uterus with metastases in the hrain lungs kidneys spleen and left ovary. During the six weeks of observation the hormone content of the urine varied between 80 000 and 100 000 mouse units per liter. Positive results were obtained also in implantation experiments made with the tumor tissue.

Fahibusch O The Aschheim Zondek Reaction and the Indication for Operation for Chorionepi thelioma (Aschheim Zondeksche Reaktion und In dikation ur Operation des Chorionepithelioms) Zentralbi f Gynack 1930 p 1542

On the basis of a doubtful case of chorionepithe homa Fahlbusch calls attention to the great diag nostic value of the Aschbeim Zondek reaction in cases of tumors of this type In the case reported curet tage following a miscarriage was soon followed by recurrence of the bleeding Four weeks later another curettage was done Histological examination of the scrapings then suggested chorionepithelioma Before performing a radical operation. Fahlbusch decided to make an Aschheim Zondek test This test made on urine obtained after the curettage was negative Fahlbusch then decided to delay operation and re peat the tests Later hormone tests were also nega tive Up to the present time the patient has re mained clinically well ROESSLER (G)

#### ADNEXAL AND PERIUTERINE CONDITIONS

Celler F C Cell Changes in the Ovary of the Sexually Mature White Mouse After Roentgen Irradiation (Zellveraenderungen im Eierstock der geschiechtsreifen wei sen Maus nach Roentgen bestrahlung) Arch f Gynack 1930 cxli 61

In previous articles Geller called attention to the fact that in the ovaries of mice exposed to roentgen irradiation there were always to be found in the periphery numerous small empty follicles with completely intact epithelium. Moreover it appeared probable that at least some of the lutein cells which were frequently found in a follicular arrangement in the irradiated ovaries had their origin from their small follicles and that the latter in turn were derived from the proliferating germinal epithelium Geller has attempted to determine the origin of the follicles and lutein cells in irradiated mouse ovaries by studying the cell changes.

In a brief description of the normal histology of the mouse on save the author states that the primary follicles present under the germinal epithelium are usually collected at one pole of the ovary. The cells of the interfollicular tissue are usually vertical to the radially arranged connective issue of the stroma and are similar to but somewhat smaller than the follicular cells. They are compressed by the growing follicle and adhere to the border of the follicle fits a thesa internal. Tet thesal luten cells of the atretic follicle are inverted and although the strong of the strong of the strong of the strong of the radially arranged as in the oyary of the radiator of the presental volume.

The author's investigations were carried out on forty five mature v hite mice which vere irradiated with varying doses of V rays and killed from two to t venty four weeks after the irradiation. The ovaries were examined microscopically after fia abon with formation and staining. The author summarizes the

results of his work as follor s

After roentgen irradiation of the o aries of mature s bite mice with from 200 to 300 R all visible o a and the larger follicles and then the corpora lutea de generate During this time there appear under the germinal epithelium numerous large cells some of thich are surrounded by flat cells. These are per haps primitive ova which have reached a certain stage of development. In the external cortex there are numerous very small | nmary follicles most of which are empty but some of shich c ntain in his tinct nuclei or cells The epithelium of these lollicles is partially degenerated but for the most part intact. In the first months after the irradiation the primary foll cles become more numerous. They lo not disappear completely until after many months In the period immediately after the irradiation most of the follicles in the cortical layer are probably persistent young follicles but later newly formed follicles appear Most of the primary follicles are destroyed in an early stage of development. The epithelial cells of the rest are changed into futein ceils At the same time the interfollicular cells are also transformed into lutein cells a fact indicating that the interfollicular cells are allo of epithelial origin. The assumpt on that the interstitial cells originate from the germinal epithelium is contrary to the theory of the majority of investigators since Uniwarter who hold that these cells are of con TIE CH (G) nective tissue origin

Alb nese A A Case of Tuberculous Ovarian Cast
(Un c so d c t ova ica t b reolare) A ch d

il t eg 93 xxx 1 547

The author reports the case of a woman twenty four years of age who presented a tumefaction of the abdomen 1 hich had been present for years and had rapidly increased in size during the last four months and who complained of an occasional dull pain in the lover abdomen frequency and burning on urnation. There was a history of tuberculosis in the natient's family.

On physical examination the patient was found to be poorly nourished. The lungs were apparently normal. The abdominal wall was tense especially in the subumbdical region giving the impression of a six months pregnancy. The unne was acid and contained a trace of albumin and numerous leucocytes. Vaginal examination revealed the corpus uters recroverted and retroffected. Its size was not definitely made out but it seemed small and apparently pushed into the pouch of Douglas by a large costic mass which extended almost to the unbilicus. The mass was spherical but spread out toward the it as fosses and was fairly fuctuant. It was smooth on the anterior side but irregularly knob like on the side as the Douglas pouch especially next to the done of the bladder. The patient had a constant afternoon fee.

I chuical diagnosis of tuberculosis of the genital organs with sacculated peritonitis was made

Surgical intervention by Spinto revealed a cystic mass which seemed to belong to the left overy and the presence of small tuberculous for in both ovaries. Subtotal hysterectomy and excision of the adnera were done.

Gross pathological amination revealed follocular vists of the left ovary. One of them was the size of an adult's head and subdivised into two partitions filled with pure The right to any was slightly larger than normal and its surface was irregular with small follocular vists. The uterus was in population. The left ovary contained small foca of caseous tutherculous:

Microscopic examination of the wall of the cist adherent to the bladder revealed inflammatory tissue with foci of tuberculous granulation tr sue No organisms were femonstrated

On the thirteenth day after the operation the patient developed intestinal obstruction. Ileostomy

as done but death resulted.

Chincal recognition of the association of a neo-plasm and tuberculosis is difficult because the mo-plasm often dominates the peture. The plans and fever which indicate inflammation may be due to trosion of a sunjle eyest. The bladder symptoms may be secondary to pressure. The foci of tuberculosis are often so small that they may be missed. It times even exploration may not reveal the true nature of the cyst.

The author believes that in the case reported the ovarian cyst was secondarily invaded by the tuber culosis

A Louis Rosi M D

Samp on J. A. Post alpingectomy Endometri sis (End salpingiosis) 1m J Ob 1 & G; c 193

The groath of spithelium initiated in Jollov vs. cra by operative injury is usually confined to the repair of the lining of the viscus it does not invade the walls of the organ. The optichelium ceases to gro when the wound is healed and hen transplanted into immediate or remote operative with does not live. Exceptions to this rule are infrequent often transitory and usually insign facint. Am portant everyton however is the behavior of tibal

epithelium in the repair of salpingectomy wounds Sprouts of this epithelium often invade the wall of the stump and sometimes extend heyond it More over they may continue to grow after healing is complete. Seedlings having the same structure as the sprouts occur in both the immediate and remote operative wounds

If the intestinal epithelium displayed the same activity in the healing of appendicectomy wounds as that shown by tuhal epithehum in the repair of salpingectomy wounds the appendix would he re moved only for acute inflammatory conditions Its removal for chronic appendicitis and as a routine procedure in other operations would be discouraged

The author studied tubal stumps from 100 pa tients who had been subjected to salpingectomy or tubal sterilization. As hilateral salpingectomy or tubal sterilization had been done in the cases of 47 of the patients 147 stumps were available Mis placed muellerian mucosa was found in or about 112 of these stumps as compared with 16 instances of misplaced muellerian mucosa in 200 cornua from 100 uten with intact tubes which had been removed hy operation Even in 50 uters with intact tubes removed for the sequelæ of salpingitis (a well recognized cause of endosalpingiosis) misplaced muellerian mucosa was found in 19 of the 100 uterine ends of the tuhes

By injecting the uterine cavity with pigmented gelatin the origin of the sprouts from the tuhal mucosa in both the intact tubes and the stumps could be more easily demonstrated than in the noninjected specimens and their course followed as readily as that of an injected blood vessel

A previous endosalpingiosis was probably present in only a relatively small percentage of the tuhal stumps. In the majority it arose from the over activity of tubal epithelium in the repair of the salpingectomy wound. Its incidence was as high after tuhal sterilization as after salpingectomy for salpingitis The condition for which the tube was removed as well as the usual type of salpingectomy was apparently of minor importance in the etiology of endosalpingiosis as compared with other factors which at present are not fully understood

Postsalpingectomy endosalpingiosis usually arises from sprouts growing out from the traumatized mucosa of the tuhal stump The sprouts may he terminal or lateral In extending hey and the wall of the tuhe the sprouts invade the tissue in which the stump is huried or any organ or structure which may he adherent to it such as the wall of the intes tine (4 cases) the ovary (4 cases) and the ahdominal wall (3 cases)

The misplaced tuhal mucosa in these lesions at times retains its original structure and at other times assumes the structure and function of the uterine mucosa It presents the histological picture of endometriosis of non operative origin

In the various operative procedures incident to salpingectom, hits of tuhal and uterine mucosa may he transplanted by the surgeon to both the imme

diate and remote fields Endosalpingiosis with the same histological structure as the sprouts is found (as seedlings) in situations where tuhal and uterine epithelium might have been sown

When endosalpingiosis is confined to the tuhal stump it is of no more clinical significance than endosalpingiosis of non operative origin. When it extends heyond the stump conditions often arise which require a second operation These conditions were initiated at the first operation

Hysterectomy is followed by fewer complications than salpingectomy. A retained uterus often requires a second operation for conditions other than postsalpingectomy endosalpingiosis

Conservative surgery does not always conserve health It is important to use better judgment in the choice of operation for patients requiring sal ningectomy and tuhal stenlization If hysterectomy is contra indicated a technique should be employed which will lessen the incidence of postsalpingectomy endosalpingiosis E L CORNELL M D

#### EXTERNAL GENITALIA

Schneider P Carcinoma of Bartholin's Glands (Das Carcinom der Bartholinischen Druese) Zen tralbl f Gynaek 1930 p 1986

A woman forty six years of age noted a swelling in the region of the right lahium majus exactly cor responding in position to the gland of Bartholin In seven months the tumor grew to the size of an apricot It was firmly fixed

Through a curved incision the tumor was dis sected free partly by sharp and partly hy blunt dissection. It extended down to the periosteum Microscopic examination showed it to be a squamous celled carcinoma The glands of the right inguinal region which were also removed contained large nests of carcinoma cell

Three months after the operation roentgen treat ment was hegun In the course of the next three years the patient received nineteen irradiations Four years after the operation a hard sharply de fined knot of tissue the size of a cherry was found at the site of the original operation

The author describes the structure of Bartholin's

glands emphasizing particularly the varied charac ter of their epithelia which explains the different forms of cancer occurring in them. He also reviews the literature and discusses the clinical symptoms the rate of growth of the carcinoma (which apparent ly does not depend on the patient's age) and the treatment He states that the tendency toward re currence is very marked. In several cases however recurrences have been operated upon successfully HANS O NEUMANN (G)

kleegman S J Trichomonas Vaginalis Vaginitis A Common Cause of Leucorrhoea Sure Ginec & Obst 1930 lt 552

In a large group of cases of leucorrhoa of vaginal origin the condition is very resistant to treatment and repeated smear e aminate as throu no light on the cau e. In the majority of the e cases the leucor there is due to a vag niti caused by a flagellate-the trich monas vag nalis

It is generally agree! th t this organism is foun! in the vagina frequenti its incidence ranging from 6 to 50 per cent. It has never been discovered before menstruat on but is often found during preenance and after the menopau e. The mo le of infects n has

not been demonstrate i

The symptoms and sens of vagantis due to trichomonas vaginalis are so characteristic that the hagnosis can usu ily to made on the basis of the histors. The outstanding sign is an ignitating leuc rrhora vith h agreeal le o lor frequently ac companied by itch ng which may be evere enough to disturb the patient's sleep Dyspareuma : fre quent Urinary symptoms are uncommon I vam ination reve 1 an acute vulvitis with a scant foams disch rge bet een the labia. There may be a fer matitis ficeting the inner aspects of the thighs

The vagina is inflamed being best described as a stra le r. vagina and bleeds i hen sponged The cers cal mucosa i red I requently there is a cersical erosi n of varying size. In some cases an eccentric erosion if the p rtio as as from the external os is found The va it of the agina contains arying amounts of a white or ell w discharge ith minute

air bubbles g ving it a f amy ppearance

The chinical diagno is can be quickly verified by pl c ng a dr p of the di charge on a slide adding one drop of normal sal ne soluti n and evamining under the high dry lens. The picture is typical a large numl er f pus cells fe v or no epithelial cells and n every feld numerous trichomona is The or ganism i n e astant motion and when free from debris can m e ran dl When caught under a group of cells it vill ag tate the entire clump in a rap d to and fro oscillating m tion When deal it becomes round and cann t be different ate I from the pus cell therefo e t cannot be recognized in stained smears unless the smears are h ed and stained n a pec al as The cli ical picture may be identical with the f gonorth ra

The treat nent recomm ndcd by the author in cludes the foll ang pro elures

Th rough crut bing of the vag na vith tine ture of green so p 2 Bathirg of the agina ith full strength pyro

- ligneous cif In o der th tevery part of the vaginal muc sa may be re ched the aginal valls must be stretched and the specul m turne l around Packing f the vigin with three or mire small
- lambs ool tampons velico ted with Lassar paste. The tampons are left in place until the patient returns for the ext treatment

It is escrible that treatments be continued throughout menstrual periods as blood apparently favors the growth f the organisms During the acute stage the patient should be seen three times ? veek and only per cent mercurochrome should be applied before the Lassat tampons are inserted

When the mucosa fash fed two treatments a week will be sufficient and should be continued until the mucos is so thoroughly dry that it resembles skin which usually takes from six to eight neeks. The patient should not be considered cure i until he h s been symptom and organism tree for four months after di continuance of the treatment Cau terization of cervical erosi as should be delived until after se eral weeks as mo t of the e erosion will heal under the treatment described. If a coexisting gonococcal infection is present the tricho monad infection should be disregarded unt I the Lonorrbera has been cured

MEST W LOLLNER MD

Lower W F Vesicoraginal Fistula 15 XC 7 4

In the n nete ath century yesic vaginal fittile tere o common that Mar on Sims fo nd d the W man's Hospit I of New York solely for the r treatment

Lesicovagin I fistula may be caused by direct sur gical injur interference i ith the blood supply of the parts involved by the pressure of the head of the fetus during pregnancy or by suture injury during

del very a pessary suph is or cancer

The d agnosis is usually en . In doubtful cases the injection of die int the bladde is of great aid

to one method of treatment is al ass reli ble The author prefers to operate b the aginal r ute He performs the operat on under spinal anasthesia to obtain sati factors relaxation \s a rule operation should be performed early before much scar tissue has formed Ho ever 1 hen the fistula is small it i sale to delay operation to determ ne whether it vill leal under treatment with an inlying catheter

The author lescribes with illustrations the tech mque he has found mo t satisfactory Good result nere obtained in go r er cent of the cases When the opening is too large or the tissues are too fixed for a plastic operation u eteral transplantation should be T FLOYD BELL M D done

#### MISCELLANEOUS

Cetroni M B Menstrual Disturbanc s of O arlan Origin (Siltbmtldig tol d g 930 1 25

The author calls attention to a syndrome fre quently seen not only just before the menopau e but all o during active sexual life which is characterized by di turbances in the rhythm of menstruation menorrhagia metrorrhagia or oli gomenorrhoza cor tinuous premenstrual or inter menstrual pain and sometimes pain on sexu ! intercourse or palp tion of the ovary. As a rule the pain is in the lower quadrant of the abdomen a d radiate to the lumbar regi as

Women present ag the syn frome generall ha e n n lesions The ovaries show many follicular cysts with more or less marked degeneration of the follicles themselves and marked vascularization and

congestion Recent corpora lutea are almost never present The ovaries are often prolapsed. The uterus also is prolapsed and frequently is retro verted. The tonus of the uterine muscle is deficient Pelvic varieoccle is often found. In sterile women the symptoms generally begin at puberty and in women with children after a delivery or abortion

The women are generally tall slender and the hyperthyroid hyposuprarenal type. As a rule they have a distinctly schroothymic temperament. The muscles are defective or sistence and the ligaments incompletely developed. The rhythm of maturation of the follicles is greatly hastened. This is due not congestion of the owners but to a disturbance of the equilibrium of the endocrine glands chiefly hyperthyroid and hyposuprarenal function.

The treatment is partial resection of the ovary. This is conservative treatment for it not only regularizes menstruation and stops the pain but is often followed by pregnancy. It should be supplemented by opotherapy with suprarenal cortex and antithy roid treatment or roentgen irradiation. Many of the good effects of irradiation of the glands in the treatment of menorrhagia and metrorrhagia are explained by this theory of the cause of the

disorders

Menstrual disturbances of another type are caused by the sclerocystic of ary. The transformation of the follicles into cysts is the result of inflammation. The treatment is removal of the diseased part of the oxary with supplementary operation on the tubes. This is not effective unless the inflammation is curred. ACEREY G. MORGAN M.D.

keene F E and kimbrough R A Endometri osis A Review Based on the Study of 118 Cases J im M Ass 1930 vev 1164

Because of the wide variation in the pathological manifestations a discussion of the symptoms of endometriosis necessitates classification of the cases into three main groups (1) those of intraperitoneal endometriosis which is the most common manifestation and includes lesions of the ovaries tubes uterus pelvic peritoneum and intestines (2) those of adenomata of the rectovaginal septum and (3) those with transplants or fistulæ in the umbilicus or a laparotomy scar

In intraperational endometrious the subjective symptoms show wide variations in degree as well as in kind. They are dependent on several factors chief among which are the extent of the lesson and the nature of the complicating pathological changes. Evaggeration of pain or its occurrence only at the time of or shortly before menstruation is character istic but this sequence of events may be absent. The clinical picture as a whole rather than isolated symptoms must be considered in the diagnosis. The syndrome may be summarized as follows: (1) age between twenty five years and the menopause (2) sternity absolute or relative (3) abnormal menstruation usually menorrhagia (4) dysmenorrhea of the acquired type (5) dysparentia (6) sacral back

ache (7) intermenstrual pain in the lower part of the abdomen with increased discomfort at the time of menstruation and (8) pain in the region of the blad der which bears a distinct relationship to menstruation

Objective observations likewise vary with the extent and nature of the lesion but in the presence of ovarian endometriomata and well developed peri toneal implants they are fairly uniform and charac teristic. On one or both sides of and blending into the partially fixed uterus there is a tender densely adherent semisolid or firm adneyal mass monly the uterus is in adherent retroflexion and con tains one myoma or more Typical of the lesion are nodulations in the cul de sac which are most readily detected by rectal palpation The rectal mucosa overlying the nodulations is of normal appearance and never adherent to the nodules Peritoneal im plants in the cul de sac without associated gross ovarian lesions are manifested by an indefinite thick ening or nodulation combined with the uterine symp toms mentioned

In rectovaginal endometriosis there may be no symptoms when the growth is small and isolated but pain coincident with menstruation and relieved during the intermenstrual period occurs with an increase

in the size and depth of the invasion

Endometnoss of the umbilicus and laparotomy scars is characterized by pain and swelling of the growths during the menstrual periods. Occasionally a periodic discharge of blood occurs from the nodules at the time of menstruation. The implantation adenomata are usually attached to the fascia. There fore during the earlier stages of their development they are deeply placed and are recognized as tender somewhat fixed masses along the laparotomy scar which on palpation suggest an incarcerated omental hermi. The more superficial growths and those primarily of umbilical origin may present a bluish discoloration and suggest chronic inflammatory thickening.

The treatment of endometriosis is based on the fact that ovarian function is essential to the activity and proliferation of the lesions. However as most of the subjects are young women it is usually hest to be conservative when the invasion is not too extensive. Of 14 married women in whom the child bearing function was preserved and who were operated upon a year or more ago normal pregnancy occurred in 28 per cent. Of all women with ovarian lesions in whom some ovarian function was conserved at operation 95 8 per cent were entirely reheated of their symptoms and the remaining 4 2 per cent. Were greatly benefited.

Surgery is the procedure of choice in the treatment of symptomatic intraperitonical lesions. Irradiation with radium or the \(^1\) rays should be resorted to only rarely as a menopausal dose is required if regression is to follow. Rectovaginal adenomatic causing severe rectal pain bleeding backache or partial occlusion of the intestine can be successfully treated with radium or the \(^1\) rays provided no demonstrable

ovarian le ions are pre ent. The simple superf cial implants are easily destroyed by cautenzation. The small peritoneal implants are symptomiess and in crease in size sloy ly hence they require no treat ment ROBERT M C TE M D

Petit Dutaillis P The Rep ir After Healing of a Complet T or of the Lerineum Friending to the Middle Third of the Rectovaginal Septum ap 's cicatr tin du ed heu com plete du pe é prol g ; gue s r t ters moyen d l cl ison re to- g le) G écolog 193 un

As a knowledge of the embryology and anatomy of the structures in olved in a complete perincal laceration is essential for the satisfactors repair of such laceration the author describes in detail the development of the permeum from the cloaca and its sphincter This description and that of the surgi cal technique be employ a for repair are supplemented.

by illustrations Exact anatomical reconstruction is necessary for proper function The author begins h s repair by restoring the vaginal and anal canals after separating their mucous membranes from the scar When these canals ba e been sutured he begins the reconstruction of the perineum appro-imating first the severed ends of the anal sphincter and working up; and until the vulvovaginal sphincter has been restored. His technique does not differ greatly from the standard H ROLD C MACK MD methods

Dannreuther W T Ti e Control of M bidity and Mortality Following P I ic Su gery A Review of 1 000 Consecuti e l'e sonal Cases 5 ¢ Gyπ & Ob: 03 1 5

The author reviews 1 000 surgically treated cases to determine the adequacy of the pre operative study and preparation whether or not the morbidity as as low as it should have been and whether of not any of the fatalities could have been avoided

His pre operati e study includes careful taking of the history physical examination appropriate labor atory tests and efforts to determine possible remote c uses of pelvic symptoms. No laboratory examina

t ons are done as a r utine

Catheterized urine is examined macroscopically and microscopically Indicanuria bacteriums and obstinate con tipation are regarded as indications f r thorough pre operati e cleansing of the intes The colon is unloaded by means of mill of magnesia mineral oil and enemata but cathartics are avoided. All patients are encouraged to drink water freely

In the cases of patients to be subjected to an elec tive operation a cystoscopic examination is made and in the ca es of those with pain in the hypochondriac or lumbar regions an indigo carmine test

of renal function is done

When leucor hosa is present smears are taken from the urethra vagina and cervix. If pyogenic organisms are found operation is nostponed

Biopsy specimens are taken by surgical diathermy from every eroded ulcerated or indurated cervit

In cases with pyrexia or other signs of inflamma tion a complete blood count and sedimentation time test are made Patients with hamoglobin less than 65 per cent or a red cell count below 3 500 000 are ra en a transfusion

When the gums are red and spongy or pyorrhora

is present operation is postponed

In cases of coryza cough or hoarseness operat on is performed only as an emergency procedure and then only under spinal anasthesia

When there is evidence of cardiac function I disturbaoce an electrocardiogram is made. Patients with marked lengthening of conduction time are put to bed and gr en digitalis before operation

Pronounced arterial hypertension renal lesio s and metabolic disturbances are regarded as ind ca tions for pre operative treatment spinal anasthesia and prompt postoperative chemotherapy with glu-

cose alkalies or chlorides

After the operation the wound is left undisturbed for eight days. If a small gutta percha drain bas been placed beneath the fat it is removed on the fifth day Lagunal plastic wounds are kept dry and dusted ith aristol for se en days. The bladder is catheten ed every six hours for three days irrespective of the inclination to soid In the cases of catheterized nationts the use of hexamethylenamine and acid sodium phosphate is begun promptly

Gauze strips and eigarette drains placed to protect raw surfaces or provide for slight oozing are removed in forty eight hours. Those inserted because of sup

puration are shortened gradually

After curettage of the uterus the uterine ca its ! packed 1 1th 20doform gauze and the patient is given o s ccm of pituitrin intravenously to promote rapid uterine in olution and pre ent uterine retro displacement

In cases treated with radium the vagina is packed with sodoform gauze to dislocate the bladder and rectum and the bladder is drained with a Pezzer catheter while the radium is a satur. After remov l of the rad um the patient is gi en an enema and

douche In cases of vesicovaginal and urethrovag nal fis tula an end elling catheter : left in place for from

ten to fourteen days The catheter is flushed da ly ith a 2 per cent boric acid solution and a urinar) antiseptic is given until it is removed Rectovaginal fistulæ are protected by restricting the diet to fluids and causing constipation for eight days

In cases with persistent vomiting autolavage gastric lavage and duodenal tube are used early

A rectal tube is inserted on the second day after operation but enemata are withheld until the third Ecemata and colonic irrigations are used day freely but cathartics are avoided while the patient is confined to bed

All patients are encouraged to move their arms and legs and to change their position at frequent

intervals early to pre ent embol sm

Patients subjected to anæsthesia for more than an hour or showing signs of impending shock are given tooo c cm of a 5 per cent glucose solution by hypodermoclysis or intravenous injection

Complications developed during convalescence in 79 of the cases reviewed the morbidity heing there fore 7 9 per cent. In some cases they were multiple The nature of the complications was as follows

	C se
Gastro-intestinal	0
Pulmonary	17
Infection of wound	6
Urinary	12
Cardiovascular	11
Systemic	
Postoperative hæmorrhage	5

The gastro intestinal complications were freal fistual in 6 cases acute peritoritis in 5 acute obstruction of the intestines in 3 pseudo-ileus in 2 and paralytic ileus duodenal fistula acute diditation of the stomach and acute parotitis in 1 case each of

The pulmonary complications were pneumonia in 12 cases acute pulmonary cedema in cases and

pleuri v empyema and pulmonary infarction in r case each

Infection occurred in 13 abdominal and 3 perineal wounds

The urinary complications were acute pyelitis in 8 cases cystitis in 3 cases and suprapulate urinary fistula in 1 case

There were 4 cases of thrombophlehitis 3 cases of embolism 2 cases of tachycardia 1 case of acute cardiac dilatation and 1 case of auricular fibrillation

The systemic complications consisted of shock and acidosis in 2 cases each and thyrotoxicosis uramia and alkalosis in 1 case each

The hæmorrhages included a massive intraperitoneal hæmorrhage in a case of cancer a hæmorrhage following a Sturmdorff tracheloplasty and a hæmorrhage following a vaginal my omectomy

There were to deaths a mortality of 19 per cent The cause of derth was embolism and pneumonia in 2 cases each peritoritis ileus and aedosis in 2 cases each and shock uremia exhaustion thyrotoxicosis hæmorrhage intestinal obstruction and ædema of the lung in 1 case each

ALBERT M VOLIMER M D

### OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Zond R. B. The Text alone of Texting for Press many by Demonstrating the Horm ne of the Anterior Lobe of the Hyp pty als in the Urine I Are Ieration of the Kaestion by Sadimenta tion of the Hormone H. Detoication of the Urine Improvement of the Text for Irefanancy (Zur M th dl. 17 Schn. r. halts alto in the Company of the Hyper Sadimental Company of the Co

The test for pregnancy de eloped by 7 ndek and ischneim has no relation to the groy th stimulating effect exerted on the uterus by the serum of pregnant women which was demonstrated by Binz as the latter may be produced also by other forms of stimu lation The Londel and Aschheim test is based on the presence in the urine of the hormone of the ante rior lobe of the by pophys s not the ovarian hormone and on Fr cesses taking place in the o aries not in the uterus. Its disadvantages are that it requires more time and as 6 or 7 per cent of urines are toxic it can be applied in only about 93 fer cent of cases The time may be shirtened by injecting larger quantities of urine but only positive results are of value Zondek therefore tried to obtain larger amounts of the hormone eausing a quicker reaction by centrifugalizing the h rmone ir m the urine

S xty sax cub c numeters of early morning urine ere weakly acidified with rectic act lifetire? Im ed with 240 c cm of aftebol shaken for i've minutes and then allowed t stand for hall an hour it the end of that time the sediment which contained the hormone was separated by centrifugalization and shaken up for i've m nutes with i'om 30 to 50 c cm of ether. The ether was then decanted and the residue taken up in 1 c cm of water. The resulting solution contained the hormone. It the end of an hour there was obtained a p le yellow slightly opal secent sol tion i which of tained the hormone content of 6 times its volume of urine. This may be used even if it becomes cloudy.

With this solution the test animals i ere injected, a times on the first d 1 and it ice on the second lay (6.4 cm bung used at each injection). After fully see nhours they are kiled and the oranse stam ined for each ymoses the presence of which denotes a positive reaction. Corpora lutte are seldom present so ea liv 1st the reaction may be negative and only a positive reaction in solve value the old method was usually emplyed in multaneously, although it requires one hundred hours for its completions.

The quicker test should be used only when haste is necessary as in cases in which the advisability of operation for tubal pregnancy must be determined

In the use of the older test the urine may be deto ; fied by passing it through a Berkefeld filter How ever a simpler and therefore better method consists in shaking it up with ether which takes up all of the torie substances including folliculin and leaves the hyrophyseal hormone \ rig d technique should be used In the technique employed by the author from 30 to 40 ccm of early morning urine are werlls acidifie I with acetic acid filtered and shaken up for three minutes with 120 c cm of ether The urine a high is separated from the supernatant ether with a funnel is then allowed to stand for one hour or is placed on a vater bath at a temperature no higher than 45 degrees C until all traces of ether have evaporated The resulting deto ified urine is injected into the test animal in the usual 6 injections of from o 1 to 0 4 c cm In this manner it is poss ble to a old the loss of test animals which in 1 080 tests for pregnancy reported by Lhrhardt and Zondek amounted to all 5 animals in 20 instances and 4 of the 5 an mals in 35 instances is the marked indi vidual variations make it necessary to use at least 5 animals for each test, the death of only 2 or 3 of the animals is sufficient to render the test negati e whereas if all of the 5 animals had survived the test it might have been positive since even a ecchymos s in 1 o ary of a single animal is sull cient for a po tive result. By deto scation of the urine the test is rendered applicable to e ery case

#### Mack II C Tie A chi eim Zond & Reaction to 1 regnancy Re ults in 100 Cases S g C) 08 1 1930 1 476

The author reports the results of the Aschleim Zondek test for pregnancy in the cases of \$3\$ nomen with normal intra uterine pregnancy \$35.00 mpegnant subjects and \$12\$ nomen with abnormal pregnancy. The test was positive in all of the cases of normal intra uterine pregnancy negate in all of the cases of it on pregnant subjects e cept a monan x ith functional memorrhem and positive in all of the cases of abnormal pregnancy except a case of moonplete abortion.

The earliest diagno is of pregnancy was made from a specimen of unne obtained three days after the expected date of menstruation. Four specimens were positive on the se enth day.

The false reaction obtained in the case of functional amenorrhous is attributed to a technoal error as only 1 of the 5 mice shot ed a positive reaction and the reactions of the other ere definitely negatie. The negatie e reaction obtained in the case of incomplete abortion cannot be considered a fall e reaction since at the time the urne 1 s obtained nothing remained in the uterus save a lew fragments of incrotice phenealt 1 save. Po itive reactions in cases of malignant chorionepitbelioma represented specimens obtained at different times from 2 cases following hydatid mole

Mack draws the following conclusions

r The Aschheim Zondek test is a very reliable laboratory method for the early diagnosis of unin terrupted intra uterine and extra uterine pregnancy hydatiform mole and malignant chorionepithe homa

2 Its simplicity permits it to be carried out

without elaborate equipment

3 It has been proved a valuable adjunct to ordinary clinical methods in cases in which the diagnosis of pregnancy is difficult ROLAND C CRON M D

MOLAND C CAON AID

Urdan B E Ectopic Pregnancy Am J Obst & Gynec 1930 xx 355

Ectopic pregnancy occurs most frequently before the age of thirty five but may occur at any stage of sex life Pelvic infection is an important causative factor Previous sterility does not seem to be of importance in the etiology as only 10 per cent of the cases fall into the group classed as cases of primary

sterility

The two most common symptoms are pain and bleeding When these are associated with shoulder pain and fainting the diagnosis is almost absolute Amenorrhoa lasting for from five to six weeks fol lowed by bleeding and pain is most common but in a considerable number of cases prolonged bleeding occurs at the onset of the period and in many cases bleeding begins from one to three weeks after a The amount of bleeding is less normal period than in threatened abortion the blood is darker and generally does not clot External hæmorrhage may be a manifestation of the death of the ovum and occurs when the uterus is beginning to cast off the decidua Curettings showing only decidua may be pathognomonic of extra uterine gestation

The temperature is rarely elevated above toil degrees f Fbe pulse rate is increased proportionately the average being from 90 to 110. The leucocyte count is of little aid in the diagnosis

Except in cases with severe hemorrhage the diagnoss is difficult. In the case reviewed by the author a correct diagnoss was made in only 38 per cent. Any change in the rhy thm of the menstrual flow with bleeding and abdominal pain should suggest extra uterine gestation. A sedimentation time of thirty munites or over is more apt to indicate extra uterine pregnancy than inflammatory adnexal disease. In the differentiation of adhexal diseases from extra uterine pregnancy than condex test should prove of value. For the differentiation of pelvic abscess from hematocele posterior col potomy should be employed.

After the diagnosis has been made operation should be performed immediately except in cases in which the harmorrhage has not been profuse and the general physical condition may be improved by pre operative treatment. Blood transfusion should

be done if necessary In borderline cases trans fusion is indicated to shorten the convalescence

In the series of cases reviewed the incidence of tubal rupture was 40 50 per cent and that of tubal abortion 48 31 per cent. There were fourteen deaths a mortality of 255 per cent. Five deaths were due to the anamma and shock from severe harmorrhages two to secondary harmorrhage one to eventration two to intestinal obstruction and four to pulmonary complications. Three of the deaths due to primary harmorrhage and one of those due to secondary harmorrhage occurred before the period when blood transfusion was employed in the treatment.

Santos M Transporting Patients with the Cata clysmic Harmorrhages of Ectopic Pregnancy (Da la question du Itansport dans le hémorra es cataclysmiques de la pros esse ectopique). Bull Soc de bost et de grate de Par 930 710 47

In cases of bamorthage due to the rupture of z tubal pregnancy transportation of the patient may be fatal. Therefore in every, case of suspected ectopic pregnancy or recent hematocele hospitalization should be recommended. Of the author's roo cases of ectopic pregnancy zo were seen during harmor rhage or shortly after a harmorthage. In the cases of 8 patients it was necessary, to operate in the midst of a cataclysmic harmorthage. Three of these patients were in a private clinic at the time the bleeding began and were operated upon immediately.

If the patient is some distance from the hospital and if the roads are not good she should not be moved preparations should be made for operation at her home. When the general condition is stationary after an hour of the attack the patient should on no account be moved as her condition vill he made worse by transportation. Palpation must be avoided as much as possible. Even if it is done every carefully the patient must be closely watched

As a rule operation should be limited to salpinged tomy. Complete anasthesia is necessary. The author advocates the use of ether for the majority of cases and of introus oxide mixed with ether for those in which the respiratory tract is in poor condition. He avoids hetero transitiosin when possible. He has never used Thies re infusion but considers it rational when the homorrhage is very recent and there are no clots.

PACE

Uzac Transportation by Health Service Aeroplane of Patlents with the Cutalysmic Homor rhages of Ectopic Pregnancy. (Du transport dans les hémorragues catacly smuques de la grossesse coto paque pe avion sanitai e) B il Soc d'obst et de gnée d' Par 103 3 11 4

The author reviews the literature on the use of aeroplanes in the transportation of patients in need of surgical treatment. Richet Jr. Garsaux and Behaque have reported experiments with depression in the pneumatic bell which is perhaps not complete by analogous to the conditions of flying. They noted

## ORSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Zondel. B. Tie Teel alone of Testing for Preganancy to Demonstrating it elitormore of the Anterio Lobe of the Hypophysis in the Utine I Acceleration of the Reactin ny Sedim nation of the Hormone. II Divotation of the Utine Impro coment of the Testing Frenancy (7u Method & de Schwagers, hits at a stage to me of the Testing Company of the Hypophysis of t

The test for pregnancy leveloped by Zondek and Aschbeim has no relation to the growth stimulating effect exerted on the uterus by the serum of pregnant women which was demonstrated by Binz as the latter may be produced al o by other forms of stimu lation The Zon lek and Aschheim test is based on the presence in the urine of the hormone of the ante rice lobe of the hypophysis not the ovarian hormone and on proce ses taking place in the ovaries not in the uterus Its disadvantages are that it requires more time an 1 as 6 or 7 per cent of utines are toxic it can be applied in only about 93 per cent of cases The time may be shortened by injecting larger quantities of urine but only positive results are of value Zondek therefore tried to obtain larger amounts of the hormone causing a quicker reaction by centrifugal zing the hormone from the urine

Sixt a voubte centimeters of early morning unnewer weakly ac diside with accine and littered mixed with 240 cm of alcohol shaken for five minutes and then allowed to stand for half an hour At the end of that I me the sediment which contained the hormone values separated by centrifugitization and shaken up for five minutes with from 30 to 30 cm of either. The either was then decanted and the residue taken up in 11 cm of vater. The resulting solution contained the hormone. At It ele end of an hour there was obtained a pale yell w slightly of all cents I stution which contained the hormone that the end of an tent of 6 times its volume of urne. This may be used even if it becomes cloudy.

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In the use of the older test the urine may be detoxi fed by passing it through a Berkefeld filter How ever a simpler an I therefore better method cons sta in shaking it up with etter v hich takes up all of the toxic substances including foll culin and leaves the hypophyseal hormone \ rigil technique should be use! In the technique employed by the author from 30 to 40 c cm of early morning urine are weakly acidified with acetic acid filtered and shaken up for three minutes with 120 ccm of ether. The urine & hich is set arated from the supernatant ether with a funnel is then allowed to stand for one hour or is placed on a water bath at a temperature no higher than 45 degrees C until all traces of ether ha e evaporated The resulting detoxified urine is injected into the test animals in the usual 6 injections of from o 3 to 0 4 cem In this manner it is possible to avoid the loss of test animals which in rolo tests for pregnancy reported by I brhardt and Zonlek amounted to all 5 animals in 20 instances and 4 of the 5 animals in 35 instances As the marked indi vidual variations make it necessary to use at least 5 animals for each test, the death of only 2 or 3 of the animals is sufficient to render the test negative whereas if all of the 5 animals had survived the test it might have been positive since e en ecchymosi in r ovary of a single animal is sufficient for a posi tive result By detoxication of the urine the test i rendered applicable to every ease FLESCH (G)

#### M ck H C The A chh Im Zond k Reaction for Pegnancy Rest its in 100 Ca es S g G; c & Ob 1 930 1 476

The author reports the results of the Venheum Tondek test for pregnane; in the cases of \$\$ women in the normal initial uterine [regnane] \$\$ non pregnant subjects and 12 is nomen with abnormal pregnancy. The test was positie in all of the case of normal initial uterine pregnancy negative is all of the cases of non pregnant subjects e cept a woman with functional amenorithms and positive in all of the cases of abnormal pregnancy except a case of incomplete abortion.

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The false reaction obtained I in the case of time tunnal amenormals is a lattributed to a technical error as only 1 of the 5 m ce sfo sed a positive reaction and the reactions of the others were definitely negative. The negative r action obtained in the case of incomplete abortion cannot be considered a false reaction since at the time the urine was obtained nothing remnined in the uterus save a few fragments of necrotic placental tissue I of it e

infants who were hom dead following the induction of labor with quinine disclosed intracranial injuries. This suggests that there was a mechanical difficulty in delivery and emphasizes the importance of care in the selection of cases for the induction of labor. ABRAIMER ABRAINER M.D.

kontsek B The Frequency of Forceps Operations and the Fetal Mortality (Die Haenigkeit der Zan enoperationen und die Fetus Mortalitaet) Gyögyás at 1930 1 4 5

As the results of the use of forceps are better the less urgent the indications. Mayer states they can be judged only by comparing the total child mortal it with the total number of forceps deliveries.

Of 7 025 hirths reviewed by the author the forceps were used in 22r (2 90 per cent). The infant mor tality in all cases was 4 33 per cent whereas in the cases in which delivery was effected with the forceps the infant mortality was 10 4 per cent and the maternal mortality 0 40 per cent.

In 14 cases in which the kielland forceps were applied at the inlet 8 children and 1 mother died within a week after delivery. In 126 cases of medium high forceps application there were 11 dead infants and 3 mothers died respectively of celampsia heart fail ure and tuherculosis. Low application of the forceps was carried out in 70 cases with an infant mortality of 5 81 per cent and the death of 1 mother from heart failure.

As a rule the use of pututrin and episiotomy were substituted for low application of the forceps. In junes to the child occurred chiefs, in cases of high application of the forceps and were manifested hy intracranial hemorrhage. The highest infant mor tality, (17.98 per cent) occurred in the cases in which the forceps were used on account of maternal indications.

E Goldberger (G)

Danforth W C and Grier R M An Analysis of 124 Cases of Low Cervical Gæsarean Sections Am J Obst & Gynec 1930 xx 405

Of 6.175 women delivered in the period from 1922 to 1929 inclusive 124 were subjected to the low casarean section. The operation was performed under ethylene anasthesia although in the last two years all operations performed on account of pre-eclamptic toxemia have heen done under local anresthesia.

Fourteen patients were operated upon because of a pricous abdominal deliver. In the cases in which the authors have done a second low cervical section they have experienced little more difficulty in separating the hladder than at the primary operation in some cases no difference was noted by a rule postoperative adhesions appeared to be fewer than after the classical section.

In 43 of the cases reviewed the existent section was preceded by a test of labor. The average duration of labor preceding the operation was twenty four hours. In 24 cases in which the membranes were ruptured the average length of time was

eleven and three tenths hours There was I death a mortality of 0 8 per cent This occurred ahout two hours after the operation following shock

The authors conclude that the results in the past eight years show the newer technique to have de cided advantages. In the cases in which it was used the mortality rate averaged 23 per cent and wound infection occurred only twice. The indications were pelvic deformity 66 cases a previous cassarean section 14 cases pre eclamptic toxemai 17 cases the repair of a third degree laceration 3 cases and misscellaneous conditions 24 cases.

The chief sin-le advantage of the low cervical technique is that it permits the safe use of a test of labor. As from 75 to 80 per cent of women vith a relatively contracted pelvis will deliver their halnes without abdominal section it is of great value to possess a procedure which will permit a test and still allow a safe abdominal delivery in the cases of the minority who fail to bring the head into the pelvis E. L. CORNELL, M.D.

Brouha M The Prognosis of the Low Cæsarean The Immediate Results (Le p o no tic de la césarienne basse Suites immediates) Bruxel les med 1930 x 1110

Brouha states that while the low cosarean section has many advantages over the classical operation it is associated with grave risk not only as regards primary mortality but all o as regards morbidity. In the 125 cases in which he has performed it since 1925 the primary mortality was 4 per cent and the incidence of senious morbidity 25 per cent. The causes of death were infection in 3 cases and spinal anasthesia hemorrhage due to uterine atom, associated with hydramnos and postoperative pneu monia in 1 case each. HARDLO E MACK MD.

Brindeau The Prognosis of the Low Cæsarenn Section The Late Results (Le prognostic de la césarenne basse Su tes elo gnées) Brivelles méd 1930 x 1116

Brindeau has found the end results of the lou cresarean section to he hetter than those of the clas sical operation. The uterine scar heing more elastic than that of the classical operation is less apt to rupture during subsequent pregnancies. Postopera tive serous adhesions are seldom formed and never involve the intestine. Uteroparietal fistule do not occur and vesical fistule are very rare. The strong uterine scar allows a tet of labor without danger. If another exasarean section hecomes necessary, it is not rendered difficult by adhesions to the ahdominal wall or the lhadder. Harold C Mack WD.

#### PUERPERIUM AND ITS COMPLICATIONS

Brown T k The Incidence of Puerperal Infection
Due to Anaerobic Streptococci 1 J Obst &
G3 t c 1930 xx 300

At the time of delivery the authors instill into the vagina a solution consisting of 15 gm of mercu

rochrome crystals and 5 c cm of half strength tipe ture of sodine in 500 c cm of glycerin. Since they began this practice in September 1926 the mortality from infection in cases of delivery at term and the morbidity from puerperal infection chiefly acute endometritis have shown a marked decrease

Puerperal infection due to aerobic micro organ isms is usually an introduced infection whereas in fection due to anaerobic streptococca is usually endogenous In the well organized obstetrical clin c infection due to anaerobic streptococcal infection is a greater problem than infection due to hamolytic streptococci and other acrobic miero organisms. A good technique in delivery can practically eliminate hamolytic streptococcal infection. In the present state of our knowledge the incidence of puerperal infection due to anaerobic streptococci will probably be reduced best to the use of an antiseptic prepara tion in the vagina at the beginning and during labor I L CORNELL M D

I ászló A R newed Attempts at the Treatment of Pue peral Fe er with Immune Sc um (\ e Ve u he zu It is rumb ha dlu g des P meral fib ) Gydgyd at 930 5 9 Forty omen with puemeral fe er vere treated

by intramuscular and intravenous injections of serum When possible the injections were given on the first day of the condition At first strepto coccus serum and later polyvalent serum was employed It the same time some of the nomen recei ed med cal treatment

The effect of the serum vas evidenced by slo ing of the pulse rate lowering of the temperature and improvement in the general conditio Of the forty women thirty four recovered and six died. In most of the six fatal cases the administration of the serum was delayed because of intercurrent ailments. Two of the fatal cases were treated in the period when only streptococcus serum was used a hereas staphy lococci were cultured from the vagi al secretion

Prophylaetic treatment by the author's method appears to have given brill ant results. Immediately after operative interference the patients were given from 20 to 40 c cm of the serum In all of the cases so treated the puerperium was afebrile

SIL IGE (G)

#### MtSCELLANEOUS

Cantarow A Montgom ry T L and Bolt n W W Th Calcium I artition in Pregnancy Par turition and the Toxamias & g Gy c &

Obst 93 1 469

The authors state that during the course of normal pregnancy and the first stage of labor there is a gradual diminution in the total serum calcium a slight increase in diffusible calcium and a marked decrease in non-d ffusible calcium. The ratio of diffusible to non diffusible calcium increases steadily reaching a maximum in the first stage of labor This disturbance is identical with that present in bron chial asthma and all ed disorders

The to amus of pregnancy are characterized by a marked decrease in the ratio of diffusible to non diffusible calcium due in most instances to an in crease in the non diffus ble fraction This findi g suggests a condition of dimini bed cell permeab lity ith associated disturbance of tissie functions in

ROL NO S CRO M D the e disorders

## GENITO-URINARY SURGERY

#### ADRENAL KIDNEY AND URETER

Streit A Contribution to Functional Kidney Diag nosis (Beitrag zur funktionellen Nierendiagnostic) Zentralbl f Gynaek 1930 p 1483

By injecting a 4 per cent solution of sodium hi carbonate intravenously at definite intervals and determining the hydrogen ion concentration of the separated unine. Rehn and Guenzhurg were able to diagnose faulty kidney function from the delayed or deficient excretion of alkali. When the hydrogen ion concentration is determined under physiological conditions an increase in the excretion of acid is found during the night. This is due to a decrease of the respiratory excretion of carbon dioxide. The kidney therefore assumes to a certain degree the function of the lung.

In general the curve of Lidney function is de pendent upon the diet. The gastric secretion also plays an important role in maintaining constant the iso ionism of the blood. It is found however that deficient excretion of alkali may depend also upon extrarenal factors. Usually urinary alkalosis is found in nephrosis and urinary acidosis in nephritis

The author simplified the test by administering the alkalı orally and making his determinations from the vesical urine of both normal and nephritic pregnant women The hydrogen ion concentration was determined every half hour hy the indicator method In thirteen gynecological control cases the hydrogen ion value was uniformly helow 6 o Also in the normal pregnancies the value in the fasting state was helow 60 In cases of the kidney of pregnancy the value was near the neutral point Following the administration of acid there was no increase of acidity the findings therefore agreeing with those of Kraeuter However the admini tra tion of alkalies to pregnant women resulted in a pronounced delay in the excretion of the alkali lests made during the puerperium resulted in a curve that remained almost exclusively on the alkali KESSLER (G) side

Busch M The Morphological Bases of Renal Insufficiency (Die morpholog schen Grundlagen der Nicreninsuffiz enz) Zischr f Urol Soi derbd 1930 P 44

In the methods of studying the lidney which have been used up to the present time the endeavor was made to obtain an insight into anatomical injury of the kidney from disturbances of partial elements of renal function. However as is claimed by Schwarz and Joseph the methods were not delicate enough for the definite demonstration of all renal diseases.

In this article Busch considers only the sequelæ of urinary stasis as morphological bases for the determi nation of renal insufficience. He states that errors and disturbances in the development of the urman tract and obstructions due to disease in the walls of the efferent passages may lead to dilatation of the renal pelvis. Urmany stasis may be produced also in a purely mechanical manner by calculi and other foreign bodies. In some cases a neurolo, ical condition such as spina hifida may interfere with the escape of urine and lead to urinary stasis and dilatation of the renal pelvis.

Surgical insufficiency of the Lidney is essentially a disturbance of the outflow of urine. Urinary statis affects the Lidney by changing its form through by drostatic and by dronamic pressure and probably also inducedly by changing the circulation of blood in the Lidney through pressure on the blood vessels. As a result, the renal parenchyma is destroyed and the Lidney becomes penetrated by connective tissue.

In the author's opinion the relationship between callatation of the renal pelvis and destruction of the parenchyma is so close that conclusions as to the function of the renal tissue can he drawn from the degree of the dilatation As in obstructed and

static kidneys namely those with slightly and moderately dilated hydronephrosis intact areas still remain Busch is opposed to too radical treatment and recommends early conservative measures. However when the obstruction can be removed surgically he favors early intervention. Haste is necessary also when infection is present or feared.

A ROSENBURG M D

Grauhan M The Anatomy of Renal Stasis (Zur A natomie der Ha nstauungsniere) Zischr f Ur l Sonderbd 1930 p 149

The clinical picture of hydronephrosis in the widest sense of the term is presented by two essen tially different anatomical and genetic conditions of the Lidney The aseptic renal stasis of adults occurs with acquired obstruction to the outflow of urine (genital carcinoma in the female with secondary closure of the ureters prostatic hypertrophy) The resultant macroscopic and microscopic renal change are very characteristic Broadening and flattening of the papillæ are followed by marked dilatation of the tubules of the medulla and cortex and finally complete destruction of the tubules and replacement of the latter by a very cellular interstitual tissue. The parenchyma is markedly reduced and the glomeruli approach each other so closely that they almost touch There is a definite but not very marked dilatation of the renal pelvis. The kidney as a whole becomes somewhat smaller In acquired hilateral stasis the dilatation of the kidney is never so extreme as in true hydronephrosis as the renal insuffic ciency which soon results terminates life and the

development of the process In unilateral hydro nephrosis due to urnary obstruction (urcteral stone prostatic hypertrophy) removal of the obstruction is very often followed by quick and marked im provement.

In true hydronephrosis conditions are quite different Very often the nature of the obstruction cannot be determined. Whereas in renal stasis of the acquired type the capacity of the dilated renal pelvis is at the most from five to ten times the normal and the veight of the affected kidney decreases to about half the normal in true hydronephrosis which 1 most common between the twentieth and thirtieth years of age the capacity of the renal pelvis is in creased from fifty to one hundred times the normal and the weight of the kidney rarely faffs so lo v as in the acquired type of hydronephrosis Moreover the histological appearance of true hydronephrosis is quite different. The tubular apparatus is almost completely preserved L en in the multdocular form 1th marked thinning of the parenchyma the tubules never completely disappear Therefore in contrast to the acquired type of renal stasis con s detable functional power remains in the paren chyma. The increase in length varies from one and one half to three times the normal

The author differentiates three types of true hy dronephrosis (1) the so called ampullar form with marked dilatation of the so called anatomical renal pelvis (2) the form with equal dilatation of anatomical ren l pel is and the calyees and more regular enl rgement of the renal pelvis and (3) the multiocular form in which there is a conglomeration of numerous markedly dilated calyees and the dilatation of the anatomical renal pelvis as a whole i

less marked

The differences in the kidneys in these two types of hyd oneph osis are characteristic of acquired renal stas s and renal stasis due to developmental dis turbances. In the acquired type, the parenchyma s dest oved as it unable to yield to the pressure of the urine. In the true type the parenchyma undergoes hypertrophy which enables it to with stand degeneration for a long time the growth capacity of the k dney is not destroyed 1s anal ogous to these changes the author cites other forms of growth hypert ophy (circulatory changes in the e tremities of young persons itb angiomata venous stasis in thombosis) He concludes that the so called typical bydronephros s is often the result of a temporary urinary obstruction causing growth hy pertrophy which thereafter persisted u changed. He states that after the conclusion of the develop mental period in true hydronephrosis there is a permanent condition which cannot be corrected even by removal of the cause W NKE (Z)

Bumpus H C Jr and Ti omps n G J Renal Tube culo is Am J S g 93 545

The teaching that renal tuberculosis is ne er pri mary but l vays secondary has so ass med the dig nity of age th t it i seldom quest nel It h s rarely been considered that tuberculosis of the bones and joints or other extrapulmonary tuberculosis might have or ginated from the focus that affected the k diecy or that renal involvement might be c incident vith tubercul sis of the sp ne o hip rather

than secondary to it

Bumpus and Thompson afte an extensive review of the literature investigated the ultimate results in cases seen at the Mayo Clinic up to January 1 1970 in hich guines pigs 3 ere given moculations with unne obtained before operation from the supposedly normal kidney. There were 175 such cases In 23 the test was a failure. In 109 the results obtained in the guinea pigs were negative and in 43 they were positive. To of the 43 patients with positive tests died in the hospital and 11 d.d. subsequently. Of the 30 of the 18 patients with positive tests died in the hospital and 11 d.d. subsequently. Of the 30 of the 18 patients with positive tests died in the hospital and 11 d.d. subsequently. Of the 30 of the 18 patients with positive tests died in the hospital and 12 d.d. subsequently.

The authors resumed also the climical findings in cases of tuberculous of the gental triat scen at the Mayo Clinic. In a review of goo cases it was noted that dysurts was usually a symptom of tuberculous of the urinary tract and was rare when the dise is was confined to the gental tract. The presence of the bacilli of tuberculoss in the uri e indicated renal involvement. In a recent review of sign can in which stained smears of urine contained act and the stable it was found that 29 patients from which as the control of the control of the sign of the sign of the control of the sign of th

As many cases of extensive tuberculosis of the bones j ints and lungs as vell as many cases of tuberculosis of the urinary tract are seen at the Mayo Chinic the authors hoped by review in access in which the bacili of tuberculosis ere fou d in the urine to discover evidence substat tating the never ideas relative to renal tuberculos.

They conclude that in tail lesions of the k l ey frequently best that it is impossible for a normal kid ey to fifter the backlih of tuberculosi out of the balond stream into the urne that the present of the backlih of tuberculosi in the urne almost an assumdicates renal involveme t and that diving its as symptom of un any tuberculos and doe not occur in tuberculosis confined to the gental tract.

#### Pa ment r F J Foord A G and L ut n gg r C J Gonococc l Py lon ph itis J U 1 93 359

In a review of the I terature the authors found the reports of 64 cases of gonococcal infection f the lidneys. They di card of cases as not proved and classify the remaining to cases a not proved and classify the remaining to cases a possible probable or proved. In the pr ved cases of which there vere only 4 d ect smears cultures and fermentation studies were made.

I rom the proved ca es the auth rs conclude that the cysto cop c p ctu e 1 not p culta to gonococcu infection that the pathological histology does not vary from that of pyelonephritis due to other hac teria and that the condition tends to become chronic and is very resistant to all types of treatment

HARRY W PLACGEMEYER M D

Mackey W A Hæmangioma of the kidney Brit J Surg 1930 vom 308

In the case of a patient sixty one years of age who developed severe bleeding from the right kidney a diagnosis of tumor of the lower pole of the kidney was made because the pyelogram showed a filling defect of the inferior major cally and the related minor calyces. Two days later the kidney was removed.

The pathologist found an angioma in the pelvis the border of which extended around the wall of the superior major callyx and into the minor callyces of the inferior major callyx. The filling defect was due

to a blood clot

The author bas found seventeen renal angiomaty reported in the literature—seven occurring in the pelvic wall four in the renal cortex and six in the pyramids. In the first group profuse hæmaturia was the chief sign. In the second and third groups hæmaturia was present but did not constitute a surgical emergency.

The diagnosis of hæmangioma of the kidney is very difficult. Nephroptosis infections nephritis stone and subeptihelial pelvic hæmorrhage must be excluded The pyelogram may show a filling defect due to a clot as in the author's case but will more often be negative. Renal function may not be impaired Unless the case demands emergency surgery conservative methods of treatment are nudicated.

The presence of an angioma may be suspected when all other possible lesions are ruled out and the onset of bleeding is acute and so severe as to demand

surgical operation

Superficial angomata of the parenchyma rarely require surgical treatment Tumors or varices of the papille may be cured by papillectomy or ne phrotomy. In cases of accessible small angomata electrocoagulation may be tried. If hemorrhage is so severe as to endanger life and the tumor is large as in the case reported nephrectomy is indicated provided the other kidney is normal.

CLAUDE D PICKRELL M D

Ljunggren E Grawitz Tumors Acta ch nrg Sca d 1930 l Supp xvi

This report is based on fifty eight case of Gravitz tumor of the ludney. The pathological classification etiology and symptoms are discussed Ljunggene considers varicocele and fever of no aid in the early diagnosis. Tumor cells never occur in the urine in these cases. Even by elaborate methods the author was unable to obtain adrenalin from Gravitz tumors. In his opinion an increased blood pressure cannot he considered a characteristic sign of tumors of this type. Of chief aid in the diagnosis are early cytoscopic and py elographic studies. In

seven cases in which the diagnosis of kidney tumor was missed an exhaustive urological examination was not done. Exploratory operation to determine the source of hæmatuma is today a rare procedure.

A careful statistical study with regard to the prognosis has been made Metastases may occur from seven to ten years after removal of the kidney tumor The author states that there is no adequate pathological criterion on which to base a prognosis with regard to the duration of life after nephrectomy for renal neoplasm In all cases with gland metas tases or tumor infiltration of the renal fat the prognosis is unfavorable. In thirty nine of the cases reviewed tumor thrombi were found in the renal Seven of the patients with such thrombi lived over five years clinically free from recurrence So far postoperative radium and \ ray treatment have proved of little value Metastases have been found in all organs except the thymus Their most common sites are the lungs and bones

Anatomical and X ray studies have been made of the changes in the kidney pelvis caused by Grawitz tumors Two cases of pedunculated Grawitz tu

mors are cited

Studies of the origin of hæmaturia in cases of Grawitz tumor were based on the pathologico anatomical examination of the material A rupture of the tumor into the kidney pelvis can usually be established Closure of this portion of the pelvis by connective tissue organization and its subsequent rupture may explain the intermittency of the hæmaturia Some tumors do not cause hæmaturia because the passage ways of the parts into which they rupture are obstructed It is believed that bleeding into the renal parenchyma and into the mucous membrane of the renal pelvis may cause hæmaturia provided operative trauma to these tis sues can be excluded It is doubtfully suggested that hæmaturia is often the result of venous stasis in the kidney tissue and the mucous membrane of the renal pelvis caused by pressure of the tumor. In some cases it may be caused by inflammation of the pelvic mucous membrane associated with the

The monograph contains numerous illustrations a complete report of the fifty eight cases reviewed and a six page bibliography HARRY CULVER M D

Schoii A J Three Cases of Carcinoma of the Kidney Atypical in Type Surg Clin Vorth im 1930 x 115

Scholl reports 3 cases of alveolar carcinoma of the kidney of a series of rox renal carcinomata seen at the Mayo Chine only 32 were of this type The rest belonged to the hypernephroma group Alveolar carcinomata are highly malignant invade the pelvis early and hreak through the renal capsule

Histologically the neoplasms tend to reproduce the tuhules of the adult kidney resembling the renal parenchyma. The structure varies from that of the well formed alveoli to areas in which there is very little differentiation the cells being matted together with only a small amount of intervening

The first case reported by Scholl was chruster used by bigh lever during the primary and recurring stages with invasion of the repal pe hide. A reaser of the literature shows that Israel mas the first to call attention to fever as a symptom of malignant tumor. Israel found fever in 38 per cent of his cases of hypernephroma and attributed it to the formation in the tumor of specific priorence substances. Of 365 cases of carcinoma of the kidney trevted at the Man Chune fever was present in 1; per cent

Of 200 cases of caremony of the kilney studied by Foulds at the Mayo Cline involvement of the renal term was found in \$\frac{1}{2}\$ \text{ \text{ line it \$\text{ patients}\$}} \text{ lied immediately after operation Of 31 however followed up 22 deed in less than two verts and 5 are able from three to for uttern years later

The secon I case reported by Scholl presented un usual diff cuity because f a nephropery performed to entry years p exposed in the third case there as a large carcinoma of the kidney without local extension which produced very few symptoms.

MALRICE MELTELR M.D.

Percini P An Esperimental Study of the Changes P oduced by the Ir sence of a F ign Body in Ite Ureter Rem Ining After P, phectomy (Stul p name 1 sul m Il'a m andott dall p du mo tac l m n m uet l dpo f t ma) I h II d l 9 3 445

The author bredls reviews the literature which leals with the part log cal anatoms and physiology of the ureter prayers at thost returning after nephrectomy. The ureter prayers at thost returning for alout three cears. After that length of time its lumen is obliterated. During its vistence as a tube it shows its highly the peristals; and the test that it is the peristals; and the test at the time is the peristals; and the test that it is the peristals.

In the expe m nts ep ted by Pieraccini the c ndt ns pr lu ed by a calculu ema ning in the uret rather n ph toms e mulated by introducing a fusiform p: e of gl ss into the upper enl

f the ureter and it ing the test about After periods anging from themet, days to seven months the course the chilled and expressed.

the animat we e killed and ev mined

In several in tance 5 th gl ss of found in the pixta-excel port in f the ureter and string that contraction per isted in the ureter for some time. The ureter attempt d to evp 1 the fore gn bods soon after its int duction. The larger the glass bods the far theret's pix well snot in gn that the ureteral activity as d cetly pr prt in all to the amount of distention of the ureteral activity.

Mic oscope studies of the areter showed that at the level of the foreign by the thickness of the mucosa a seconsider bly the essed and the muscle layer as compressed and atrophed. In the segments immediately above and below this level the muscle layer as well conserved, but distally it was atrophied The atrophy was probably secondary to stasis which stimulates connective tissue prolifera tion

This experimental work indicates that in aseptic cases in which nephrectomy is performed a 5 mil taneous sureterectomy or uneterolithotomy for stone is unnecessary

A Louis Rost M D

## BLADDER URETHRA AND PENIS

Pr to Inquinal Cystocele (C ntributo II stul d l c i e le ngu al ) Cl h i 193 786

Fight cases of inguinal cystocele are reported Cystocele is of the inguinal variety in 90 per cent of cases. The bladder is found involved in 3 per cent of all inguinal herms operated upon

If the theory of urologists regarding the origin of uncreated to the blud for a correct the theory that inguinal cystocele is the result of hermation of a vestcal diverticulum is untenable. It is more logical to suppose that a hermated portion of the vestcal vall can assume the characteristics of a diverticulum it the hermat ring is inclusive. In unput of the formation of inguinal cystocele is the previoual factor in the formation of inguinal cystocele is the previoual factor.

In doubtful cases of inguinal cystocele a cysto copie and N ray examination should be made before operation and the bladder d stended with fluid at the time of operation after section of the bermail ring. In cases of recurrent inguinal hermail thas sometimes been found that the cystocele was figated at the fit operation.

Sel acht F W | sical Diverticulum in the F male J L | 93 xt 393

Diverticula of the bladder are rate in the femole They are usually classified into the fall e and the true types. The false divert cula are the result of perceival at a postoperative deformity of the bladder patent urachas malformation of the bladder o inclusion of the bladder in a ventral or inguinal herma. Imong the true di ericula 2 types a egenteally distinguished. One is the result of faulty development of the vall of the bladder whereas the other which usually appears later in life g evidence f some form of obstruction in the urchina.

the neck f the bladder. The possibility of classifting diverticula intercongenital and acquired types on the basis of their hi tological structure has not been prived.

Name is theories have been suggested regard in the nature and method of formation of the ves caldiert. In Honeve, there are a principal vest-According to one theory discreticula are the result of a combination of acquired and congenital factors according to another they are chiefly of congenitarigin acc riding to a third they are for the most purt acquired and according to a fourth they may be of the entitle vegors and or entirely acquired.

Schacht and Crenshaw re sewed of cases of a criticulum of the bladder in the female which has ebe n eported in the hterature. The ages of the

patients ranged from thirteen to eighty years Of 56r diverticula of the bladder seen at the Mayo Clinic in the period from 1970 to 1929 only 18 occurred in females

In 73 of the 78 cases of vesical diverticula in the female seen at the May of Clinic the diverticula were of the true type and in 5 they were of the false type A urethral carunde was present in 3 cases chronic granular urethritis in 7 case and a cyst at the neck of the bladder in 7 case. Of the false diverticular was the result of injury at childburth and the 4 others were due to operative procedures in the pelvis and abdomen.

The seventy of the symptoms depended to a large extent on the presence and degree of cystits trg ontis or urethritis or such complications as vesical calculus or neoplasm. In 4 cases there were few if any symptoms referable to the urinary tract

In approximately 70 per cent of cases of diver ticulum of the bladder in the female the patient is between thirty five and sixty five years of age

#### Joly J S The Treatment of Vesical Papillomata by Cystoscopic Dirthermy Proc Roy Soc Med Lond 1930 xun 1557

Joly compares bis results in the treatment of vesical papillomata before and after the introduction of cystoscopic diathermy. He states that malig nancy arises only in growths that have remained single. Multiple tumors do not invade the bladder wall no matter how luvuriant they become. He recognizes numerous variations between beingin and malignant growths and believes that the term

malignant papilloma should be abandoned Before cystoscopic diathermy Joly treated 39 cases of vesical papillomata by excision. In 30 cases of single tumors there were 4 recurrences Of the 9 cases of multiple tumors there was a recurrence

เท คโ

The cases he has treated since the introduction of cystoscopic diathermy are divided into the following 3 groups

r Single tumors Of 26 cases in which he was able to obtain reliable information regarding the end result five years after completion of the treat ment a recurrence developed in 6 In r it developed after fourteen years

2 Multiple growths Of 28 cases of multiple tumors small recurrences were found from six to twelve months later in all. As these recurrences tend to diminish after repeated treatments the patient can be assured of freedom from trouble

after three or four years

all courteness after open operation. These usually occur near or in the suprapulus sear and are usually occur near or in the suprapulus sear and are orthough an ordinary catheterizing telescope. For this type of case the author has devised a special electrode car ner. Multiple recurrences after open operation are very difficult to control but Joly attempts to keep the patient free from symptoms by repeated treat ments. He has patients whom he has cystoscoped ments.

more than 50 times and 2 whom he has cystoscoped more than 100 times

Job uses cystoscopic diathermy whenever cystos copy can be done and there is no evidence of infill tration of the bladder will Patients with severe hemorrhage or clot retention require cystotomy. The decision as to whether a particular tumor is suitable for cystoscopic treatment is at times difficult. A pediunculated tumor is tested for mobility. The electrode is thrust into the tumor and the current passed for a few seconds. If the tumor breaks away, when the electrode is withdrawn it should be considered mulgianant. All sessile tumors should be considered malignant unless they occur after operation. Some sessile tumors recurring after operation are henign but if there is any doubt they.

The author then discusses in detail the instrumentrium and technique for cystoscopic dathermy. He does not employ general annesthesia but states that while it is associated with danger it permits the use of a more powerful current which decreases the number of treatments necessary.

should he excised

ANDREW MCNALLY M D

#### GENITAL ORGANS

Noung H H The Advantages of the Perineal Route in the Treatment of Various Diseases of the Prostate Proc Roy Soc Med Lond 1930 Van 1680

This article is a review of the author's well known technique of perineal surgery in the treatment of the prostate and seminal vesicles. Young states that while suprapublic prostatectomy is radically curative and technically satisfactory, the perineal operation is unquestionably safer. He emphasizes the importance of rectal palpation of the prostate as a routine procedure in all physical examinations and strites that malignancy should be suspected, when even small areas of great induration are felt.

He helieves that the important role played by the trigone in the physiology of incturation has not yet been fully recognized by physiologists. Micturation is initiated by contraction of the trigone which opens the external sphincter and allows the detrusor muscles to force the urine out through the urcthra

In describing his technique for perineal prostatic tomy 'koung states that excellent anisathosia is obtained from a single injection of 20 c cm of a 3 per cent solution of procurie into the sacral canal The patient is placed on the table with the perineum elevated and the pelvis bent forward at the sacro inac joint. The incision and the various details of the exposure of the prostate and seminal vesicles are described. When the operation is finished a catheter is inserted in the urethra and a Davis drainage bag introduced through the prostatic wound into the bladder and blown up. In this way all bleeding is stopped.

The mortality of perineal prostatectoms in r 57r

cases was 3 6 per cent

Young has found that about ap per rent of patients who present themselves with symptoms of prostate obstruction are suffering from carcinoma of the prostate. He emphasizes the importance of early diagnosis and early operation. Of special and in the diagnosis is a peculiar increase in induration when the prostite is pripated with a sound or the cysto scope. The utility a radical operation for complete removal of the pro tate and the prostate urethra vith anastomous of the bladdet to the membranous urethra is described. Its mortality is 4, per cent. When it is done early enough a cure with good urinary control is obtained in a high percentage of cases. Young states that in prostatic carcinoma death is small, due to metastases.

tradical operation for gential tuberculosis is also describe? The author belt wes that removal of the tuberculous epidids mis not enough off 4 pattents subjected to his operation 9 were found in good condition after five years a after four years 3 after three years and after one year.

The author's perineal approach is used also in the treatment of retention cists of the prostate hierarculum of the posterior urethra rupture of the posterior urethra incontinence of urine recto urethral fistula and impermeable urethral stricture.

The usual pre operative preparation includes gradual a caution of the unne stud es of the blood chem stry and tests of renal function. In cases of deep bladder and prostate unfections cases of lever visit or without blood infection and cases in which mission and drainage are indicated instruencies in jections of a 1 per cent solution of mecunochrome are given.

#### MISCELLANEOUS

De Keer maecke Pseudo Urlnary Patients (Les

It i not unusual for patients to come to the urologist with enito urinary symptoms not based on an anatomical I sion of the genito urmary organs Guyon calls them pseudo ur nary patients symptoms differ in the two seres but in both there is hyperasth sia ith more or le's acute spasm of long duration caused by disequilibrium of the vegeta ti e nervous system in the pelvis which results in disturbances in the function of the bladder and rectum with sequela such as pain retention or the avoluntary passage of urine constipation bæmor rhoids fissure of the anus and pruritus In children the condition causes nocturnal and diurnal diu esia and constipation r the involuntary passage of Women suffer from strangury vaginism and pain in the abdomen the los er part of the back and the buttocks. In men there is retention of urine with false stricture abnormal sensations in the urethra and the region of the anus and perineum priarism spermatorrhæa and pain and spasm during and after costus. The treatment i massage AL EY G MORG N M D

Molina R and Ruiz J B Indications for Deriva tion of Urine (I dc cone de la d n a n d onna) i d c g Hasana 1930 : 3 3

Detivation of the urine is being practiced more and more in genito urinary surgery. Renal derivation by nephrostomy is done in hydronephrons and pyonephr size. We teral derivation by urretrostomy may be lumber or that. Derivation by umplaintation of the ureters into the intestine is a more serious operation and its late results are g nerally unfa or able.

Derivation of urine may be temporary or perma nent Temporary derivation is indicated in certain operable vesicovaginal fistulæ as it improves the operative prognosis Permanent derivation may be practiced on the Lidney For e ample at operation on a woman with a cancer of the uterus and com pression of the ureters a double nephrostomy may be performed to prevent anuria. Lermanent den a tion by ureterostomy is done to relieve pain in th bladder in cancer or tuberculo is Den ation of mine is in herted also in cases of severe traumatic or inflammators stenosis of the urethra as it renders internal urethrotomy possible later. In periurethn tis and fistula it allows the removal of the indurated masses of to sue and disinfection of the fistula In traumatic rupture of the prethra it facilitates the suturing of the wound and favors healing. It is in dicated also in cases of urethrocutaneous fistulæ obstinate cases of chancre of the mestus in which healing is pre ented by irritation from the ur ne and cases in which an autoplastic operation is to be ACDREY G MOROA M D performed

Barbellion P The Trentment of Acut Gonor rhora (1 the apeut q s d ns la bl r gr a gub) I dt I med I h 93 16

After trying many other treatments the author all ays returns to permanganate trendstion. Vaccination alone does not seem to be effective in genorihera Colloudals accines are equal to the oth r vaccines in a cute goneribea and superior to them in complications. I local vaccination with c il ido bacterial vaccines seems to be better than the methods presiously employed. An oily solution of santaled can be given by intramus cula inject on

Santalol with salol and urotropin by mouth has a good effect on the pain and discharge hut the disea e often lasts longer than usual under this treatment and irrigations finally become necessary

Next to permanganate irrigation the author thinks the best treatment is the administration of santalol salol and urotropin by mouth with the intravenous injection twice weekly of 5 cern of a 2 per cent solution of gonacrin. The results are decidedly better than tho e obtained with gonacrin alone.

No treatment of gonorrher is sure to prevent complications The incidence of posterior urethritis is about the same after all methods of treatment Ihough chemotherapy does not always prevent orchitis and prostatitis it is obvious that in hyper acute cases it is attended with less risk to the patient than irrigations poorly given

There does not seem to be any standard treatment for gonorrhoea at present Each case should be treated according to the local and general condition the amount of time that can be given to it and the patient soccupation. The patient should be watched for the development of para urethral fissures folliculitis and prostatitis and not discharged until he is thoroughly cured. AUDRIY G. MORGAN M.D.

## SURGERY OF THE BONES, JOINTS MUSCLES TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Pomeranz M M Roentgen Diagnosis of B ne Tumo s J Bo & Jo tS g 193 xu 795

In osteomy elitis the following changes are demonstrated (1) areas of bone destruction varying from small abscesses to involvement of the entire bone (2) sequestration (3) irregular periostitis parallel i ith the long axis of the bone and (4) meduffary cortical and periosteal sclerosis

Benign tumors are localized to the medulla cor ter or periosteum and have sharply limiting bor They cause definite expansion of the bone thout periosteal stripping. They develop slowly

and do not involve the soft tissues

Malignant tumors show irregular invasion with simultaneous involvement of the cortex medulla and periosteum. They grow rapidly in and about the bone and involve the soft tissues. The perios teum is stripped and bone is deposited perpendicu larly to the shaft of the bone

EL TY J BERRHEISER M D

Fraser J Tumors of B ne Ld b th M J 03 ZI

Fraser prefaces his discussion of bone tumors by a review of the anatomy and physiology of bone His classification of bone tumors is similar to that of the American Sarcoma Registry He reports cases representative of the different groups and discusses the nathogenes's symptoms and treatment of each type The treatment includes \ ray and radium ir adiation and the use of Coles s fluid in addition to operation Excis on is often preferable to amputa WALTER P BLOUNT M D tion

Phemister D B Rep it of Bone in the Presence of Aseptic Necro is Resulting from Fractur Transpi ntations and Vascular Obstructi n & J 18 g 93

Aseptic necros s of bone may result from various factors such as circulatory disturbances trauma chemicals and radium irradiation. The repair of the damaged area varies with the causalive agent and the functional stimulation

In necrosis produced by infection complete ab sorption occurs if the area is small and sequestra

tion if the area is large

In aseptic necrosis of bone resulting from circula tory disturbances an ingrowth of vessels and osteo cenic tissues occurs from the h ing bone to the necrotic area if the necrotic bone is approximated to the living bone and by this creeping substitution the old bone is replaced by ew bone

L EN I BE AH SE MD

Porkner C E Ti e Synovial Fluid in Health and Disease J L b & Cl n M d 930 87

The purpose of the study reported in this article was to collect classify and evaluate the available data on synotial fluid in order to ascertal first whether the joint exudates can be utilized for cl ical purposes and second whether further studies on the fluid of joints are I kely to be of value and if so it what direction such investigations should be car ried on

There is considerable uncertainty regards g the origin of the synovial fluid. Ho e er the adeq acy of the synovial fluid for the nutrition of cartil g from the standpoint of carbohydrate and energy

3 relding content is clearly indicated

The article contains seven tables based on the author's observations and reports in the literatu e Table I gives the physical and chemical propertie of human synovial fluid under normal conditio s and in the presence of general cedema var ous dis eases found at autopsy non specific effusions acute syno itis bursitis septic arthritis gonorrhoal ar thritis syphilitic synovitis and Charcot s joints Table 2 gives the physical and chemical properties of the fluid in traumatic effusion chron c arthr tis acute rheumatic fever tuberculous arthritis at thritis of serum di ease and intermittent hydar throsis Table 3 summarizes the biological properties of human synoyial flu d under normal conditions and in simple effusion non specific hydrops inter mattent hydarthrosis traumatic effusion traumatic arthritis and arthritis of dysentery In Table 4 a e given the biological properties of the fluid in chron c arthritis in Table 5 the biolog cal propert es of the fluid in septic arthritis gonorrhical arthriti tuber culous arthritis and acute rheumatic fe er and in Table 6 the biological properties of the fluid in s) philitic arthriti s) philis without arthrit s and Charcot s joints Table 7 summarizes the findings gi en in the six other tables

From the data in these tables the following con clusions are drawn

A sugar content under 60 mgm per 100 c cm is almost always associated with infection of the joint

2 A sug r content under 45 mgm per 100 c cm is strong evidence in fa or of the p e ence of pyo

genic organisms

3 1 pll value of approximately 7 o is strong ev dence in favor of the presence f bacte is

4 A pH value of under 7 o 1 almost certain to be associated ith the presence of pus producing o

ganisms 5 An acterus under of over 55 is practically als ays a sign that tr uma is playing or h s played an important role in the etiology

6 A positive Wassermann reaction in the joint fluid associated with a negative reaction in the blood is strong evidence of syphilitic arthritis

7 A positive Wassermann reaction in the joint fluid with a positive reaction in the blood may or may not be associated with syphilitic arthritis

8 A positive Wassermann reaction in the blood associated with a negative reaction in the synovial fluid probably represents good protection against the ultimate development of syphilitic joint disease

o A letrocyte count of 11 ooo or more cells per cubic millimeter associated with 60 per cent or more of granulocytes in the synovial fluid of a patient with chronic non specific arthritts is likely to be associated with the presence of a positive culture of attenuated organisms

no A leucocyte count in the joint fluid of 5 000 or fewer cells per cubic millimeter together with less than 50 per cent of granulocytes in a patient with chronic non specific arthritis is likely to be asso

chrome non specific arthritis is likely to he associated with a negative culture of the fluid II The presence of large numbers of red blood

corpuscles in the synoxial fluid of a patient with arthritis is evidence against chronic non specific tuberculous syphilitie or acute septic arthritis and suggests that trauma was the etiological factor

12 Animal inoculation is of value in the diagnosis of syphilitic arthritis occurring early in the dis

In conclusion the author states that it is very sigmicant that attenuated organisms can be cultured from a high percentage of cases of chronic nonspecific arthritis. The recent contribution of Shands in which the same types of organisms have been grown from cases of Charcot joints from cases of traumatic arthritis and from cases of intermittent hydarthrosis tends to support the theory that in the telology of arthritis several factors are involved One factor is undoubtedly trauma and another is the invasion of organisms

A study of the synovial fluid in arthritis is of great and in differential diagnosis. It yields information which approaches in importance that obtainable from the study of cerebrospinal fluid

ROBERT V FUNSTON M D

Blencke H Sport Injuries of the Joints (Uebe Sportschaeden der Gelenke) Zentralbl f Cl

In 1923 Bactzner reported that even in young gymnasts and athletes he had frequently found sever ethronic joint affections which he attributed to their physical evercise. He stated that excessive one sided sport activities cause not only functional weaknesses but also anatomical changes. The tissues undergo structural changes the muscles are torn and the joint cartilages become inclastic and broken and peel off. The cartilage defects so produced are followed by reactive changes in the bone with the development of an affection similar to arthritis deformans which Bactzner described as a sport injury of the joint.

The opposition which his theories provided led Baetzner to make roentigen examinations of the joints of athletes competing in the ninth Olympiad at Amsterdam. In compliance with Baetzners is quest Heiss made 358 roentgenograms of the joints of 159 athletes of various types from different countries. In 4 instances he found marked changes in volving especially the knee foot elbow and shoulder.

Recently Knoll opposed Baetzners view that these changes in the joints are the manifestation of a primary idiopathic arthritis deformans due to its sue changes from sport trauma. He believe is that they are more probably the result of previous joint traumata and points out that in the development of joint conditions such factors as the constitution in herited predisposition and internal secretions are of importance. He undertook the systematic roentgen examination of 40 ski jumpers among whom were the hest in Switzerland. In these examinations he found roentgenologically demonstrable changes in the skeleton only occasionally and concluded that

they nere not the result of trauma

The author reports to cases from his own practice which presented evidence suggesting that in tense sport activities had injured the affected joints He concludes that the constant activity of pro fessional foothall players who indulge in their com petitive sport every Sunday is conducive to prema ture destruction and wearing out of the joints and their tissues and he believes that Baetzner's theory applies not only to the severe types of sport activity but also to the moderate types On the other hand he agrees with knoll that a number of joint in juries are caused primarily by trauma. The trauma need not cause fractures and luxations in many in stances it is more prohable that it produces minute changes in the joint borders the cartilages and the tendon insertions. Also of importance in the development of sport injuries is the fact that the in jured athlete usually returns too soon to his sport The resumption of sport activities after a sport in jury usually occurs sooner than the resumption of work after a similar accident at work. After the athlete has recovered from his accident sufficiently to resume his vocation a considerable period of time should elapse before he resumes his sport activities Sports should be resumed only after healing and strengthening of the injured member have progressed further When this precaution is observed many sport injuries of the joints will probably be avoided ZILLMER (Z)

Ely L W Chronic Arthritis Its Classification Etiology and Pathology with an Outline of Its Rational Treatment J Lab & Clin Med 1930 I 64

The author distinguishes two main types of chronic arthritis Type r is due to bacterial infection which can be demonstrated definitely or is strongly suggested by characteristic changes The cause of Type is unknown

In Type 1 the chief feature is a problerative in flammation in the synovial membrane To this may be added a problerative inflammation in the bone marrow in the immediate vicinity of the joint. The inflammation may start in either tissue and spread to the other. When it begins in the joint tissues themselves the synovial membrane bec mes thiel ened infiltrated and villous as a rule a serous bloods fibrinous flocculent or purulent exudate is poured out into the joint cavity. The cansule also thickens. In some cases the proliferation is slight free fluid cannot be demonstrated an I adhesions form in the synovial membrane. The cartilage be comes thinned and at its circumference its place is taken by the synovial membrane which spreads out over its surface suggesting a perichondrium Because of interference with function the cartilage be comes fib ous. In severe cases it may be bound to the synovial membrane and the opposing cartilize by adhesions. Under such circumstances the joint cay its is replaced by a mass of scar tissue and fibrous ankylosis results. In some infections the ankylosis bec mes bony When the disease starts in the mar to it gains the under surface of the cartilage and the granulations absorb or kill the bone trabecule as they so ead

The chief symptoms of this type of arthritis are the sof inflammation in any organ—pain swelling interficence it is function reduces and an increase in the local tempe ature. There is a fauty constant clats in hip between the symptoms and the ana it micel change. The pain is swally greater when the bine is milled than when only the symousial membrane is affected. He toon deformities are the rule. Constitution I sympt ms may be present or absent depending upon the nature and severity of

th infection

The rentgen gram sho s swelling of the soft p ts thinning and s egularity of the joint space and sefacts of the bine. Bony spurring and lipping a e absent

The ondition is a disea e I the earlier periods of

The author discusses the different all disgresses and triatment if arthritis of Type 1 due to different

typ s finfection

Chr nic thritis of Type 2 is characterized by a n line up of b ne and cartilage at the ci cumference of the joint cartilage along the line fattachment of the c psule -s called spuring and lipping In the autho s opins n the first and fundamental change s a eptic necr ss n the marrow near the to at I ly believes that this type of arthritis is due to protoz a probably one or seve al of the so-called harmless variet s v h ch ga n access t the circula tion through the p n bone at the oots of dead teeth In supp t of this theory he states that the stools of a large percentage of patients with arthritis of Type 2 contain protozoa The joint cartilage be comes fibrous and calcifed it degenerates and then disappears o er large and smaller areas leaving the underlying bone bare This bone becomes thickened

and dense elumnted 1003. Ike and grooved in the med joint motion and prevents the communication of the marrow spaces below with the joint extraordinates of a long series of mechanical insults. They are did a long series of mechanical insults. They are quite different from the so-called lymphod profirm tion of arthritis of Type 1. The membrane becomes greatly that churched from the production of long meshe is fibrous itssue and fat. It loses its smooth gistering surface and becomes a mass of greatly endinged with Cysts are sometimes I mich in the marrow near the bone en list of the marrow near the bone en list.

This disease is a condition of middle and later life and occurs in persons a tilt dead teeth. The inflam mation is of a lover grade than that of arthritis of Type 1. There is no correspondence between the amount of anatomical change and the symptoms

and physical signs

The author d scusses in particular chronic arthritis of the spine of Type 2. He believes that in many cases of so-called neuritis fibrositis myosts fascutis and radiculitis the condition is really spinal arthritis.

In the treatment of chronic arthritis of Type 2 the author first has all dead teeth extracted Some times the symptoms then subside. If they do not he gives a course of neoarsphenamine and emetin

## Neotra A Humerus Varus (L m a o) Cl

The author reviews the l terature on humerus varus and reports three cases. He states that the occurrence of the condition in adolescence is rare only eight cases having been recorded to date

The pathological changes of humens varu are meted to the metaphy as of the humerus the rest of the skeleton being normal. The condution is a definite of including the skeleton being normal that continuous with other types of deformaties of the humerus in persons affl cted with constitutional hone distrophers. It is the result of the gradual breaking do not the valls fa unilocular cyst of the metaph is of the humerus. The breaking down of unilocular cost of the humerus.

cists does not produ e it

In cases of cretinism microcephily rickets an achondrophisms one sees frequently deformities of the upper cpaphysis of the humerus which after it only the angle of inclination but also the angle of it is on the angle of direction and the general aspect of the humerus Similar deformities are found throughout the skeleton. In such cases all of the cause and humerus varie is probably in portant man festalt in of a green direction portant man festalt in of a green direction protection. The case is a considerable of the cause and humerus varie is probably in pathological protection. The continue to classify these dyst opine for me the same group with cystic humerus varies will only up perfectly considerable of the continue to classify these dyst opine for me the same group with cystic humerus varies will only up perturbe the evisting confusion of the transition.

Inflammatory humerus varus should be con sider if a def rmit; secondar; to a p imar; osteo myelitic process

ANTHONY R CAM R M D

Rigler L G Ude W H and Hanson M B
Paravertebral Abscess an Early Roentgen Sign
of Tuberculous Spondylitis Radiology 1930
xx 471

I aravertebral abscess which occurs in about 80 per cent of cases of therculosis of the thorace spine is generally considered a late manifestation of the disease. As a rule it is merely confirmatory of a diagnosis previously made on the hasis of involvement of the vertebral hodies and intervertebral disks. However in some cases it may be a very early sign of the condition and in others it may be a sign of a very beings form of tuberculosis which fails to cause enough destruction to invade the di ks or produce the typical collapse of the vertebral bodies.

The recognition of paravertebral abscess depends upon the finding of a spindle shaped shadow in the unteroposterior roentgenograms. This shadow has a hilateral symmetrical appearance and is frequently overshadowed by the heart. In lateral roentgenograms the shadow of the abscess is not

well visualized

The authors report four cases in which the diag nosis rested upon the roentgen signs of a paraverte bral abscess. In two these were the earliest signs appearing hefore visible changes in the bodies of the vertehræ. In the two others the changes in the verte hræ were minimal and not definitely diagnostic.

CHARLES H HEACOCK M D

Pap L Diseases of the Hip in Adults (Hueftgelenks erkrankun en bei Erwachsenen) Ortoskép és 930 vv 207

Because of the peculiar anatomical structure of the hip joint the diagnosis of hip diseases presents many difficulties and in the examination of the hip reliance must be placed almost exclusively on indirect methods In addition to careful recording of the history inspection palpation and functional tests roentgenography is of great aid Important con clusions as to the nature of the disease the resistance of the body and the treatment indicated can often be drawn from examination of the blood However the blood picture shows a decided change only in cases of severe hip joint disease of infectious origin In such cases the hæmogram is of value also in the prognosis In the presence of the ti sue destruction which occurs in inflammatory processes the individual albumin fractions have characteristic dis placing effects on the blood picture These path ological changes in the plasma and serum can be readily determined by the colloidal lability test of Darany, and the sedimentation reaction of the red blood cells Especially the latter is a simple and quick clinical method which can be employed by all general practitioners The blood sedimentation is normal in degenerative processes changes in the hip joint of static origin metabolic disturbances and joint injuries due to tropbic disturbances but i in creased in acute and cbronic inflammatory processes of infectious origin. The sedimentation test differ entiate tuberculous necrosi from aseptic necrosis

and benign tumors of the hip joint which are visible in the roentgenogram from malignant tumors

Diseases of the hip joint differ from diseases of other joints because of the peculiar structure and function the special conditions of weight bearing and the very peculiar blood supply of the hip

The diagnosis of coxitis is not difficult if a thorough examination is made but the determination of the cause of the condition is often more difficult. At the very outset a tuberculous or lucter origin of the disease must be absolutely excluded. In adults in fectious coxitis is due most frequently to the gono coccus and the pneumococcus. The course of such hip joint disease varies considerably. As a rule it is very, severe. The juvenile type of osteochondritis is a disease of childbood and youth the results of which are encountered in adults. In the pathogenesis of Perthes, disease trophic disturbances play an important part. Recently it has been found possible to produce Perthes disease in animals by blocking the blood vessels to the joint with silver powder.

The most common disease of the hip joint is arthritis deformans. One of its causes is constitutional weakness of the joint. The elements forming the joint chiefly the articular cartilage show dimin ished resistance to continuous insults factor is weakening of the organism due to age The condition is favored also by local circulatory disturbances excessive demands and increased func tion The organism reacts to the primary degenera tion of the subchondrium and to the necrosis of the cartilage with increased connective tissue and osteo phyte formation The tendency toward ossification in advanced age often produces hizarre deposits of hone in the hip joint. The mildness of the clinical symptoms as compared with the pronounced changes seen in the roentgenogram and the prolonged main tenance of function are characteristic. Changes in the hip joint are often associated with systemic diseases of the spine Especially the anlylopoietic spondylitis described by Struempel often becomes localized in the hip In the presence of symptoms referred to the hip roentgenography must not be neglected as it will often explain a primary tumor or tumor metastases around the joint. In two cases cited by the author roentgenography led to the unusual discovery of deforming osteitis localized exclusively in the hip joint and the pelvic bones

The treatment of dieases of the bip must be adapted to the requirements of the particular case. The prophylavis of bip joint diseases requires relief of weight bearing an increase in the muscle power of the lower extremities and restriction of the body weight.

VOYLORMAYER (Z)

Bragard K. A New Sign of Meniscus Injury Fundamentals of Examination of the Ane Joint (Ein neues Meniscus eichen Grundsetzliches zur Untersuchung des Kniegelenks) Juenelen med Ilch schr 1030 1 682

The symptoms of lesions of the meniscus are at times not very characteristic. Even a point of

tenderness to pressure in the middle of the joint fissure on the medial aspect of the extended Lnee which is often eited as characteristic may not be indicative of meniscal injury. Such a point of tenderness is found also in diseases and injuries of the capsule chronic inflammations of the joint and disturbances in the ligaments due to static changes Moreover the signs of incarceration which may be caused by a loosened meni cus are not pathogno monic of meniscal luxation as they may le produced also by a fat tag or a cartilaginous joint mouse In both conditions-the incarceration of fat tags or a cartilaginous joint mouse on the nne hand and capsular irritation on the other-an in jury of a meniscus can be differentiated with cer tainty only on the basis of shilting of the menisci an flexion and rotation of the knee during examination for points of tenderness to pressure

The author describes the action of the meniors in movement of the joint As the menisci are fixed only anteriorly and posteriorly they make definite shifts in position with the movements of the normal joint. In extension of the joint for example both are pushed forvard and fill out the space between the ends of the bones so completely that the joint line can be palpated only with diff culty On fleri n of about 150 degrees they slip slowly into the po terior part of the joint so that the anterior joint space is opened. When rotation mo ements are ma le with the leg flexed their movements are re versed. When the leg is rotated inward with the knee fle ed about oo degrees the lateral meniscus is pushed clear back s hereas the medial meniscus is m ved forward almost as far as in the extended position of the knee. When the flexed joint is rot ted outward the medial meniseus is drawn back and out ard the anterior portion is put under heavy tension and pulled deeply into the joint and the lateral men seus is moved farther for sard than in the ext nded position of the knee

It is e ident therefore that the menisci are accessible t the palpating finger in t o positions of the 1 int the medial meniscus s bich is injured the mo e frequ ntly in the positions of complete e te sion and flexi n with inward rotation and the lateral meni cus in the positions of complete exten si 1 and flexion 1th outward rotation When the ment cus is injure i it all be tender to pressure in these positions of the joint and when other positions are assumed it ships a ay from the palpating finger and the tenie ness ceases I rom the occurrence and subsidence of the tenderness to pressure in thes positions a conclusion may be drawn as to whether the s n itive and frequently thickened structu e is a meniscus or the capsule As a rule the longer the point of tenderne's takes to disappear on simple flexion of the joint the more severe the in jury In contrast to injury of the meni cr aff etions of the capsule of the joint cause greater tenderness on flexion s the sensitive tissues are then stretched and in addition are pressed upon the hard articular ZILLMER (Z) border of the tibia

#### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Boon Itt S B A Study of the End R s lis of Synoveet my of the knee J B & J 1 1S g 1930 x 853

The author reports the end results of sixty partial or complete's powerformes performed in forty eight cases of arthritis of the knee. In some instances lat pads and the semilunar cartilages were removed with the synovial membrane. In the cases of infectious arthritis the operation was preceded by the accepted treatment for that condition. After the operation physical therapy was begun as soon as possible. The author draws the following conclusions:

In a ell selected cases of chronic arthritis of the polyarticular type synovectomy results in improxement in about to per cent and in well selected cases of chronic arthritis of the monarticular type at results in improvement in about 75 per cent

2 In traumatic arthritis synovectomy gi es good results in 95 per cent of the cases 3 Tuberculous arthritis of the knee is not hene fited by 33 novectomy Five V Brennesser V D

Mckittrick L S and Pratt T C Tl Ope at le Tre traent of Lesions | the Lower Extr mitles in Diabet 3 Mclilius | th S re 1010 m 50

This article is based on 35 operations for les on of the lower extremities in diabetes meditive which were performed in a period of seven years. The patents remained throughout the treatment under the care in the internit. But the entire responsibility for the choice of operative procedure and the decision as to bo when and where amputation should be done rested with the surgeous

The most important factors indicating the circulatory condition of a foot are pain the appearance and temperature of the foot and the pulsation of the dorsalis pedis artery

Pain in the call or in the sole of the foot suggests failing circulation. Severe pain while the leg is at rest indicates arterial insufficiency with a poor progress.

A foot ith failing circulation appears dead when it is elevated and becomes dusky or red and shiny when it is dependent

I foot which is cold at ordinary room temperature has poor circulation. I sharp change in the temperature at some point on the leg means lailure of collisteral circulation at that point.

Pulsation of the dorsalis pedis artery can be felt in practically all normal feet. When it is abset operative procedures should be undertaken only with great caution.

In conditions due primarily to infection in which the pulse of the artery can be felt and the foot is a ram and of good color local operations are usually succe sful and amputation is unnece sary. When the foot is cold blanches when it is elevated and flushes when it is dependent local operations are rarely successful and sometimes are dangerous. In the cases of infection reviewed the organism usually responsible was the staphylococcus albus. The wounds were kept wet constantly with Dakin's solution. In superficial infections, ultraviolet light was found of value.

The only form of external heat used to stimulate the circulation in the cases reviewed was the electric pad. Other methods were found dangerous

Panful feet were often relieved by the following exercises (i) lying in bed with the feet elevated 60 degrees for two minutes (2) sitting up with the feet dependent for three minutes (3) lying down with the electric pad on the feet and legs for five minutes. This cycle was repeated 6 times each period for 3 or 4 periods a day. When walking was resumed it was at first permitted for only half a minute each bour and then gradually increased

Gangrene in a pulseless painful foot is an indication for amputation unless it is confined to the up of a digit or is superficial. A painful foot which is not relieved by two weeks hospital treatment should

he amputated

If the arterial pulse is present and the foot is warm amputation of toes may be done safely for gangrene osteomyelitis or recurrent ulcer or to improve drainage in infection of the ball of the foot

In the cases of patients under fifty five years of age amputation is best done through the lower leg if the skin is warm as far as the ankle the popliteal artery pulsates and infection is absent above the ankle

The Gritti Stokes amputation requires good pul sation in the popliteal artery a warm slin of good color to the ankle absence of signs of infection at least 7 cm below the timal spine absence of all evidence of general septicemua and the possibility of using an artificial limb

Amputation should be done through the thigh when the shortest and surest method is necessary when the pophiteal or femoral artery does not pul sate when extensive infection is present and when conditions will prevent the use of an artificial limb

In cases of severe infection and gangrene of the foot and extensive general sepsis the guillotine operation must be done and followed after two or three weeks by a secondary plastic amputation if the patient is condition permits. If the fever continues after the guillotine amputation a search should be made for metastatic infection.

Draunage of the anterior part of the foot is best done on the dorsal aspect usually by amputation of I or 2 toes but sometimes by amputation of the head of the metatarsal Attempts to drain in the plantar surface usually fail A fairly good weight bearing surface can he obtained after removal of metatarsal heads if the bone I heveled so that the lowest part of the stump is toward the heel

In major amputations preparation of the skin lower than 5 cm below the line of incission is contra indicated by the danger of stirring up infection Except in guillotine operations the use of the tour

niquet should be avoided in order to prevent throm bosis

After operation special care should he taken to keep the skin of the opposite heel and the back in good condition. Daily irradiation of the back with ultraviolet light is advisable. The stump should be dressed every six to eight days. Sutures should not be removed until after from ten to fourteen days. The patient should be fitted with temporary artificial legs after four or five weeks and encouraged to walk early.

Double amputations may be done and in many cases are requested by the patient hecause of the

comfort and freedom from pain they offer

In the 281 operations reviewed the general mortality was 11 6 per cent. In 119 major amputations for conditions due primarily to arterial insufficiency the mortality was 17 6 per cent. and in 19 amputations done for conditions due primarily to infection it was 10 5 per cent.

WILLIAM A CLARK M.D.

Rollier A Conservative Treatment in Surgical Tuberculosis of the Lower Extremity J Bone

& Jo t Surg 1930 til 733

Hibbs R A The Treatment of Tuberculosis of the Joints of the Lower Extremitles by Opera

tive Fusion J Bone & Joint Surg 030 m 740 Lo Grasso H The Non Operative Treatment of Tuberculous Joints of the Lower Extremity J Bone & Joint Surg 1930 m 755

ROLLIER states that the loca destructive lesions caused hy so called surgical tuberculosis are simply manifestations of a general disease and secondary evidence of an infection which everts a local action only because of a decrease in the general resistance and a disturbance of psychoph sical equilibrium Therefore the treatment should consist of measures to improve the physical condition and the psychic tone or morale and local measures to increase the local defense.

The first essential in the conservative treatment of surgical tuberculosis is exposure of all of the skin to the complete solar spectrum The skin is an organ which not only possesses functions of protection and secretion hut also is active in the regulation of the circulation and capable of supplying endocrine gland deficiencies Only general heliotherapy of all of the skin is capable of restoring to this organ its various and extremely important functions in the defense mechanism of the hody Heliotherapy bas a restora tive influence also on the muscular system and the joints Its heneficial effect on the blood and the mineral metabolism can be followed by studies of the blood calcium which it increases to normal or above normal It alters the acid base equilibrium alkalinizing and recalcifying areas which have be come decalcified by the byperacidity of the bacillary infection To be of the utmost value it must be given according to definite principles of dosage and technique

Also of importance in the treatment of tuhercu losis is the diet. This should consist of cereals vegetables and fruits which are rich in vitamines.

The operations which expose the joint to less danger-reduction of the size of the capsule with and without free fascial tran plantations trans plantation of the subcapsularis and the muscle plastics of Clairmont and l'insterer-lave not met e pectations \ greater number of permanent results have been obtained with kirschner's suspen sory method and Oudard s elongation of the coracoid process At least equally effective is the direct method of Pertles which has given ten permanent result and narrowing of the capsule which has given fifty six permanent results flowe er in the cases treated by narrowing of the capsule there were twenty nine recurrences the majority of which may be attributed to unrecognized associated injuries and therefore ere due to the indirect method. Trans plantation of hone to the anterior edge of the glenoid cavity gave only two permanent results in the eases reviewed but will probably show considerably better results in future reports. However because of the possibility of necrosis without healing and of infec tion of the freely tran planted bone impairment of the results is greater than in the direct methods of Perthes and in reduplication of the capsule \ccord ing to the cases reviewed the direct reparative methods have a decided d antage o er the others

Freund E Mie scopic Process a in the Head of the Femu After Frocture of the Femoral Neck (U b r de mkrosk psch n V rage ge millueft k pf ch Sch kelli ibrueche) i k f patk i 1 g cels ii 336

Freund e amined nine fractures of the neck of the femur in old persons v hich bad occurred from three to nine ye is previously From a careful study of 203 sections he crime to the following con

cl stons Preser ation of the vascul r c nneetions (round ligament cervical periosteum net ly formed strand ) is of great importance in the life of the head of the femur If these connections are entirely interrupted the marrow and spongiosa become necrotic fter ph gocytes from the reticulum of the marrow have init ted decomposition of the dead fatty tiss es nd have themselves died if The importance if the rou d I gament is still ery much under estimated While it is true that the marrow tissues and spo giosa may sometimes become necrotic then this beament alone is preserved in other instances its preservation may entirely present necr si Later by ay of this ligament necrotic tissues are removed and gradually replaced by ne ily formed marrow and spongiosa to the fracture surfaces with the formation of a nearthro is Also when remnants of the periosteum of the fem ral neck are preserved and when connecting strands are formed regeneration proceeds from the surfaces of the nearthros s

In the broken off head of the femur hich has formed a nearthrosis tiny fissures are often found on microscopic examination. Some of these may have occurred before the fracture of the neck (early frac

tures) and others at the time of that fracture (accessory fractures) but the greater number occurred subsequently (late fractures) The late fractures are recognized from the pre ence of newly formed bone which has fractured and healed again

For the nourshment of the cardiage with its sluggish metabol sin the joint and alone are suited in the cardiage with its sluggish metabol sin the joint and are are suited in the cardiage states. The cardiage seldom becomes the the cardiage is complete separation of the lenur from all of its vascular connections. The healing process after traumate separation of the joint cardiage and the very varied degenerate and regenerative processes of the joint card light in the historia of femoral head do not lead to secondary arthritis deform in 'tecordingly the latter cond tion is of no practical importance among the sequely of fracture of the neck of the femure.

In cases of fracture of the neck of the femur in which tabes is present all of the signs described by Moritz as characteristic of tabetic arthropathy are

found an I sometimes are very marked

Santos J V Chang s in the Head f the Fem r After Complete Introcapsular Fractuof the Next Their Bearing on Non Union and Tratment 1 h S t 103 To 47

The author reports fifteen cases of intracapsular fracture of the neck of the femur. Complete necrosi of the head of the femur occurred in nine and partial necrosis in one Non union resulted in five. In to cases in which bony union was obtained there we simpaction. In one case of non union no treatme, the sagging and in one Whitman ettens on of the himb was emplyed. In two cases the hip spical treatment, was refficient.

The head of the femur may undergo necros safter complete intracapsular fracture of the neck of the femur in spite of the presence of the ligamentum Secondary vascularization may or may n t occur In some cases the blood supply may penetrate the spong osa through the fovea by way of the rou d ligament or through adhesions along the surface of the eroded neck or articular cartilage. When this occurs considerable parts of the femoral head may be preserved and active hone regeneration may follow If the necrotic head fails to obta n a secondary blood supply from the ligamentum teres s mple de struction and fragmentation of the articular cartilage and bone result If connective tissue e tend from the I gamentum teres into the eroded head there s replacement of cartilage and bone about the fo ea ith absorption of the deep layer of articular carti

lage the process continuing to regeneration.
When bony union occurs in spit of necros s of the head at is brought about by new bone coming from the distal fragment. When the head of the fentur remains after after the fracture and the fragments are in good position bony union of the fracture will occur in the majority of case.

There are four main causes of non union (1) di placement of f agme ts (2) excessive mobility of fragments (3) necrosis of the head of the femur and (4) necrosis and erosion of the neck fragments

The most important factors in bony union are exact reduction and fixation of fragments. Necrosis of the head is an important cause of non union When the circulation of the head is completely in terrupted and the entire structure dies any callus that is formed for the repair of the fracture must come from the distal fragment. Union between a completely necrotic head and a living distal fragment is more difficult to obtain than union between two living fragments.

If the head remains alive it will undergo the same degree of atrophy from loss of function produced by immobilization and the same degree of restoration with the return of function as the neighboring ihum and distal fragment. In cases of non-union and marked functional disability there is a persistent uniform reduction in the density of the head and the hony trabeculæ may he entirely lost in relatively large areas In cases of necrosis of the proximal frag ment there is a distinct difference in the density of the shadow cast hy the head and the neighboring living bone at the end of the period of immobilization treatment This difference is visible at the end of six weeks and is usually marked at the end of from two and one half to three months The head having lost its blood supply has been unable to atrophy and casts a shadow of normal density whereas the neigh horing living bone is reduced in density as a result of the atrophy of disuse Subsequent changes in the

density of both the head and the neighboring hone vary according to whether or not hony union occurs and according to the restoration of function When there is necrosis of the head and bony union of the fracture occurs the necrotic head casts a heavier sbadow than the distal fragment at the end of the period of immobilization. With the resumption of function the tissues of the distal fragment are stim ulated to invade the necrotic head with resulting absorption and replacement hy new hone change is evidenced by an irregular reduction in density which proceeds from the fracture line when the invasion is from the distal fragment and from the fovea when the invasion occurs from the round ligament Too early weight bearing in cases of ne crosts of the head with hony union will cause col lapse which is evidenced in the roentgenogram by a depression of the articular surface and irregular dense shadows in the underlying bone due to the compres sion of the broken down necrotic traheculæ

When the Whitman method of ahduction and in ternal rotation in a bip spice is employed the cast should be removed after from ten to twelve weeks and a roentgen examination made to ascertain whether the head is dead or alive. If the roentgen or examination is not conclusive the roentgen examination should be repeated. If non union results with survival of the bead the hone pegging operation of Alhee may, be employed but if the head is necrosed the Whitman or Brackett reconstruction operations may be indicated.

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Levis D Congenital Arterio enous Fi tulæ

It is frequently impossible clinically to different act between various vascular lessons. Congenital reteriovenous fixtular may present many of the signs of those of the traumatic type. The congenital fixtular also suggest a close relationship to cirisond ancursims rankenangiomata and other types of hemanicious.

Lev is reports six cases of congenital artenovenous ancursm which he his observed recently and gives briefly the histories of twenty four cases which have been recorded in the literature. He discusses the brady cardiac reaction the cardiac enlargement and the levelopment of the ancursm.

Operative treatment is more difficult in cases of congential arterio enous ancurisms than cases of arteriovenous ancurism of the traumatic type be cause in the former the communications are usually multiple and when the ancurism occurs in the extrem ty are so situated that they cannot be reached

Of the t enty seven cases reviewed in which the nanutrum occurred in the extremities amputation was performed in thirteen (about 48 per cent). In some cases multiple operations are necessary. Let is believes that the large vens in which the thrill is greatest and the bruti loudest should be attacked 17st. When possible after the artery has been closed temporardy with a rubber covered clamp. Ligation of the arteries in the c tremities has been frequently followed by gangrene. In one case mummication of the thumb folio ed I gation of the brack lail artery or the circulatory changes subsequent to it.

The b advardaac reaction will disappear v ben a gre t amount of blood is no longer shunted directly into the veins from the arteries. A heart v high has been dialated and decompensated as the result of the distu bance of the vascular mechanism vill return to normal vhen the fistulous communications are close to rem ved by amputation. The return to practically normal of a badly damaged heart is illustrated by Israel's case in high an amputation as per formed bove the aneursman communications.

Congenital aneurisms do not differ from traumatic aneurisms with regard to the bradycard c reaction and the cardiac changes. Whether or not these are pre-ent depends upon the amount of blood shunted directly from the arteries into the veins.

CARL R STE N M D

McPheeters II O The Injection Tr atment of Varicos Veins im J S g 93 9

A short history of the injection treatment of varicose veins i g e McI heeters believes that in the majority of cases varieose veins are due to congentally defecti even walls. He is of the opinio listhat an endoctine factor is not to be denied. No proof his been found that infection in the vein wall is a primary cause.

In the treatment of all extensive cases of various veins McPheeters uses a 75 per cent solution of in vert sugar and a 50 per cent solution of de trose combined at a 30 per cent is lution of sodium chhonde. If then employs quinnic and ureth ne for injection of the varices that were missed at the first sitting.

I reganacy especially during the first four or five months of the condition is no lo ger considered a contra indication to the injection treatment. The cardiovascular case is on the border in Phere is no greater danger of complications in clderly persons than in young persons. Obesity is not a contra indication but renders the injection much more difficult

Marked or lema and st elling of the feet may be due to varicose veins a cardi renal conditio or an old infectious thrombophlebitis. Therefore a cor rect diagnosis is very important. The diagnosi aided by the fre delenburg and Perthe tests When the Lerthe test is positive the injectio treatme t may be given v hether the Frendelenburg test shows a definite reverse flo v or not. One contra indication accepted by all physicians is the case in which a definite positive infectious thrombophlebitis la been present at some time in the past either follow ing confinement or some other cau e and has left the deep venous system of the leg severely injured or destroyed Also in cases of recent thrombophle bitis in the deep system the injection treatment i contra indicated until time has proved the e tent of destruction of the deep circulation an I the infect ous condition has ent rely quieted do n

Various techniques are discussed and Mel heeter method is de embed in detail with illustrations. As a rule. Mich heeters prefers to treat all of the le tons at one time. Howe er when they are very extensive one leg may be treated frst and the other leg a few days later. The saphenous we in is not lig ted. The most common complication; per philebitis along the course of the 1 percled vein due to direct injection of the scherosing fluid outside the vein leakage. (The impacted fluid through a needle puncture in the all of the vein or direct passage of the schero ring fluid through the wall of the vein.

I atalities following vein injections the cau es of recurrence of the varieo ities and pathol goal changes following the injections as ston by biopy specimens are diccussed

The handling of varicose ulcers a leser bell with complass in the u e of the rubb raying. In all f

McPheeters cases of ulcer 10 drops of a saturated solution of potassium iodide are given three times a day after meals and Braun seed skin grafts are used

CARL R STEPINE MD

Stern E L The Alcohol Injection of Nerve Roots for Thrombo Anglitis Obliterans 4m J Si g 1930 x 107

Blocking of the nerve roots of the twelfth thoracre and first and second lumbar nerves results in paraly sis of most of the vasoconstrictor in thers of the femoral and populeal arteries The blocking is accomplished by injecting into the nerve roots 8 c cm of 95 per cent alcohol after inducing anæsthesia with a i or per cent solution of novocain

Stern reports three cases of thromho angutts oh hterans in which this procedure was used. In each ca e there was definite improvement in the circulation evidenced by a rise in the temperature of the extremit. The blocking of the nerve produced no serious paresis or paralisms of the muscles and no ensory disturbances except slight anisothesia of the upper and lateral parts of the thigh

SAMUEL PERLOW M D

# SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

B recanu Statina and Albul co 'Tie Origin of Postoperati e Reactions—Le copt to is I er and Azotremi—and the Pr citcal Import nee of These Revictions in the Prognosis of Operative Results (Long. des éct s post-op a t—logis s fé a time—ci u pot ce patque dans le p got cd s ts. opert es j P sis dh P 103 vs. 187

From their studies of postoperative reactions the authors draw the following conclusions

r There is a postoperative leucocytosis

2 Postoperative fe er due to the disintegration of leucocytes is the result of the reacts n of the organism to the operative act

3 Postoperati e azotzmia is the result first of diffusion in the blood of leucocytic ferments and the products of disintegration of the leucocytes of the blood and second of local tissue resorption

the blood and second of local tissue resorption
4 Leucocytosis fever and azotamia are closely
related and vary simultaneously

5 The variations are directly proportional to the patient's age (a known factor) and his organic

resistance (an unknown factor)

6 They may be directly proportional al o to the

furation and severity of the operation

7 These postoperative reactions may be of
prognostic value with regard to the results of the

operation
8 In the absence of hepatorenal lesions an intense leucocytosis febrile reaction and azotæmia

indicate a very favorable prognosis

o A moderate leucocytosis fever and azotæmia

indicate a favorable prognosis

to A feeble leucocytosis slight fever and no or only slight azotæmia indicate a reserved prognosis requiring close postoperative observation

rt The absence of leucocytosis or the presence of a definite leucopænia and bypothermia after an operation of long duration with severe trauma in dicate a very unfayorable prognosis Pace

#### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Albee F H The Bacte lophage in Surgery I i snot J M d & S g 93 xl 46

The author discusses the use of bacteriophage in surgery particularly as exemplised by the modern treatment of osteomyehits popularized by Orr In stead of frequent interference and dressings the wound is let alone for weeks or even months be cause allowing the products of the bacteria as well as the granulations to remain undusturbed in contact with the wound is apparently favorable to the

induction of a native bacteriophage. It has been shown that there is a native bacteriophage in wound and that healing is delayed in cases in which it is element is facking and is accelerated by the into duction of the lyttle principle. Antiseptics may cause destruction of the bacteriophage

The most striking characteristic of a wound treated by this method is the appearance of the granulations which are a glistening red and not exuberant or cedematous When the wound is well packed with vaseline gauze and enclosed in a dress ing surrounded by plaster so that uniform pressu e is exerted upon it and the surrounding structures the normal appearance of the resulting granulations suggests that normal physiological pressure has been brought about by the dressing The pus is expressed and the packing extruded from the wound by the pressure of the growing tissues The point at which this equdibrium is maintained by the dressing is apparently that which is optimal for the healing of tissues The speed of the epithelialization and the rapid assumption of a normal appearance by the new skin suggest that the healing of all structures is greatly favored by the equalization of the pres sure at an optimal level This principle may explain the unusually satisfactory results obtained when the treatment is applied to varicose ulcers. In the last

by this closed method with excellent results

JACO M MORA M D

#### ANÆSTHESIA

three years more than 150 cases have been treated

II denleidt II Ph nomena Accomp nylng Spinal Anæ thesia (Uebe de Begl trch gndr L mb lan esth) A h f hi Ch 193 cl

Spinal anasthesia is no v so perfected technically that only the accompanying phenomena which a e distress ng hut not dangerous still stand in the way of its ider acceptance. While the after complications (headache local pain in the sacral region neuralgia in the lower extremities and abducens paralysis) do not present a single homogeneous disease picture and the dyspines which is caused by pushing the anæsthesia too far can be avoided the symptoms accompanying the anæsthesia present a definite syndrome the individual phenomena of which-dizziness general d comfort nausea som t ing pallor sweating spasmodic yawning and in severe cases dulling of consc ousness-follow each other in regular order Up to the present time these phenomena bave not been preventable appear when the anæsthes: has reached a certain beight usually ath n eight to twelve minutes after the administration of the anæsthetic and just be

fore or immediately after the occurrence of the an extensa In some cases they come on about ten minutes after the subsidence of the excitement attend ant upon the beginning of the operation or after completion of the operation. The attack occurs most frequently in the first stage. An attack in the first stage is of shorter duration than attacks in the second and third stages. In the latter stages the attack is likely to begin with pallor and sweating A number of attacks occur in only one third of the cases.

Nothing definite is known as to the origin of these ymptoms It is improbable that a general toxic effect of the anæstbetic is the cause because in other methods of inducing local anæsthesia considerably larger amounts of anæstbetic are used and because in novocain poisoning tonic spasms are prominent and vomiting is absent Responsibility of a local toxic action is also improbable because such an action is supposedly the cause of the after effects and could not at the same time produce the accompanying phenomena which appear entirely independently of the later disturbances Irritation of the meninges may be excluded because as we know from sunstroke this causes severe headache and long continuing after effects whereas the phenom ena in question cease with cessation of the anæs thesia

The fall in the blood pressure which is constant in spinal anasthesia is in part the consequence of the lowering of tonus in the paralyzed region but is due especially to paralysis of the splanchinicus the roots of which are spread over all of the thoracis eigments from the fifth to the twelfth so that the higher the paralysis ascends the more extensive the splanch nicus paralysis that follows. However sinking of the blood pressure and the phenomena accompanying the anisthesia should not be confused as the latter do not make up the phenomena of collapse.

Seasickness presents great similarity to the syn drome accompanying spinal anæsthesia. Both con ditions are accompanied by a lowering of the blood pressure disturbances of equulibrium and sensitivity to psychic impressions (recurrence caused by impressions arousing nausea). Seasickness begins with movements of swallowing and ends when these movements case. The cause of sensickness is a disturbance in the organs of equilibrium isemicreular canals and othiths) which leads to excitation of the Vagus nucleus and thereby brings about a disturbance of equilibrium in the vegetative system—pre dominance of the cranio autonomic over the sympathetic.

The author is inclined to assume that the disturbance of equilibrium responsible for esciscleness is concerned in the origin of the phenomena occur may be expected in spinal anaesthesia everyt that in the latter the shifting in the equilibrium is caused by dimmution in the activity of the sympathetic. This theory would explain why the phenomen an question occur with special frequency and force above the level of the umbilities in spite of the fact that a large part.

of the splanchnicus affected by the anasthetic is helow this level Below the unbilicus the para sympathetic being paralyzed with the sympathetic there is no shift in equilibrium whereas above it the vagus is not affected its evictation remains the same and the activity of the splanchnicus is dimn ished

The author found his assumption confirmed by the fact that novocain infiltration of the vagi compensated the lowering effect of the spinal anæsthesia on blood pressure

The most certain remedy for the phenomena ac companying spinal anæsthesia which is vet known is Bier's hyperæmia at the neck. In spinal anæsthesia the splanchnicus is acted upon unavoidably Therefore the syndrome can be attacked only through the antagonist the vagus. The author has recently undertaken experiments with visana the well known remedy for seasickness. Sievers (Z)

Kleine H O The Origin of Neurotrophic Ulcers
After Sacral Injections Observations on the
Theory of Trophic Nerves (De Enistehun neuro
troph scher Ulcers nach Sakralingekinonn Bemer
kun en zur Theore der trophischen Nerven)
Arci
f Gyna k 1,930 cd 154.

The author reports two croses in which the induction of sacral anesthesia failed and operation per formed under ether narcosis was followed by the appearance of changes in the skin of both feet. In the first case symmetrical ulcers appeared and in the second ulcer formation on one side and exdema on the other k-lene believes that in seeking the cause of such sequelle it is necessary to consider traumatic lesions of the posterior roots at the site of the injection chemical irritation (novocam tutocam especially when supplemented by the action of adren alm) and vulnerability of the perioncal nerve (skin over the dorsum of the foot). A FRIEDMANN (GI)

#### SURGICAL INSTRUMENTS AND APPARATUS

hirschner M Changes In the Asepsis of Para phernalia for Operation (Wandlungen in der Asepsis des Operatio sappa ates) Chir rg 1930 ii 337

Bacterologists have become more and more emphatic in calling the surgeon s attention to the fact that the security of measures employed today to obtain asepsis is doubtful knorr (Minuch) has found that catgut prepared for operation often contains bacteria also that silk and thread which has been subjected to boiling for a considerable length of time at 100 degrees C is not completely free from bacteria knorneh (Berlim) has shown by his investigations that the usual methods of sterilizing swabs compresses and linens in a stream of steam at 110 degrees C and one balf atmospheric pressure is not sufficient to destroy all bacteria. Even metal instruments are not completely sterilized by boiling in water. However the bacteria or spores which have resisted the ordinary methods of sterilizition are

usually quite harmless They are mostly the spores of anaerobic hay bacilly and soil bacteria which according to general knowledge do not cause any particular injury in vounds

These observations raise the question as to whether we should still continue to strive for the old ideal of complete sterility when this goal is as yet unattainable in certain respects (the hands of the operator and the skin of the patient) or should give up this goal because up to the present time it has not been attainable in all respects and the bacteria remaining after sterilization procedures now in use apparently do not have a marked nathogenic power The author believes we should continue to destroy the bacteria as much as is possible and combat all recognized sources of contamination with all avail able weapons

As the first practical result of the investigations cited the manufacturers of catgut have been aroused and every effort is being made to render catgut com pletely sterile without reducing its tensile strength In aseptic operations the author uses only boilable ligatures preferably thread Although boiling does not insure complete sterility there is a tremendous difference bety een the bacterial content of catgut and that of silk or thread which bas been boiled for ten minutes. The author has experimented also with aluminum bronze wire (o 15 mm) which may be boiled for hours or heated red hot

The procedures used for the sterilization of bandages and operation linen must be radically changed As Konrich bas shown that sterility is insured only by exposure to steam at 120 degrees C and under one atmospheric pressure for fifteen min utes the development of new sterilization apparatus to meet these conditions is necessary Moreover metal instruments must be sterilized by boiling at 120 degrees F

struments and gloves used for septic and aseptic operations Since we no . know that our sterilizing methods are imperfect the separation of septic and ascetic instruments is essential. The author points out also that the same side of the glove should always be use? One side of the glove should always be toward the skin and the other side always toward

Of particular importance is the separation of in

the outside The glove should be so labelled Existence concludes his report with these words Better too much effort than defective asepsis

ZILLME (Z)

# MISCELLANEOUS

### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Valentin B Clinical Contributions on the Nature of Malformations (klinische Beitraege zum Wesen der Mi shildungen) Arch f orthop Chr 1930 vvviii 385

Valentin limits himself to answering the question Is it possible to increase our knowledge of the nature of malformations from purely clinical data? The clinician sees the complete fully developed mal formation and can draw conclusions regarding its genesis only with great caution. For example, spina bifida may be regarded as a reaction of the germinal cells or a reaction of the developing organism to injuries of various types. In the completed mal formation the mode of origin can no longer be recognized Another example is syndactyly This may have an endogenous origin in which case it presents a definite clinical picture or it may origi nate in later embryonic life perhaps through ad hesion of the fetus to the amnion In some instances therefore it is possible to conclude from chinical examination not only the approximate time of the origin of a malformation but even to determine whether the condition is a primary or secondary malformation The author cites a case in which examination of the placenta enabled the pathologist to establish the presence of amniotic malformation although he had no knowledge concerning the child

The relationship of ahnormal pigmentation to malformations of various types is discussed and demonstrated by illustrative cases such as cases of neurofibromatosis with osteits fibrosa osteomalacia

and scoliosis

Valentin concludes that formally and causally malformations may arise in various ways and cites proofs of the correctness of this theory. He warns against the error of accepting the evogenous theory, it e origin through pressure of the amnion for all malformations that we do not recognize as hereditary.

Baumgartner E A and Jewett C H Tropical Sprue Experience with Thirty Six Cases A ch Int Med 1930 xlv1 597

The tbirty six patients whose cases are reviewed had lived in the Orient or tropical countries for from one to thirty nine years. Their ages ranged from thirty two to seventy one years. Twenty four were women. The cause of the condition is unknown.

In twenty five cases the earliest symptom was diarrhea At some time all of the patients had had trouble with the mouth. In most cases the mouth condition consisted in the appearance of small ulcers All of the patients complained of marked abdominal

distention due to gas and gave a history of weakness and loss of weight during the acute stage of the condition. In nearly every case the stools were char acteristic of sprue in the acute stage, heing grayish large, and frothy.

In sixteen cases the blood picture was similar to that of perincious aniema. In all but four per nicious aniema was definitely ruled out by the presence of free hydrochloric and in the stomach a low blood calcium with or without tetanic reactions or definite didatation of the colon. Several of the natients showed a sever secondary aniema.

Improvement in the general condition and return of the appetite almost always follow restriction of carbohydrates and fats in the diet. In cases with severe anaemia liver is of value in the treatment

CARL R STEINKE M D

Leriche R and Fontaine R An Experimental Study of the Effect of Section of the Spinal Cord on Arterial Pressure Its Application to Surgical Shock, and Traumatic Shock (Étude expérimentale de l'influence de la section de la moelle sur la pression artérielle I étude du choc chriurgical et du cho traumatique) Pr sze med Par 1930 x xviii 1230 x

The most recent textbooks of physiology teach that resection of the spinal cord at the level of the seventh dorsal segment provokes vasodilatation of the lower limbs resection above the third dorsal segment causes a vasodilatation of the four limbs resection ahove the seventh cervical segment causes generalized vasodilatation and loss of vascular tonus in the paralyzed territones determines a marked fall in the arternal pressure which after high resection of the cord goes from 12 to 2 cm. Hg. The initial hypotension is fleeting and ceases spon taneously after a time hecause of the entrance of the medullary vasomotor centers into function

The authors undertook to repeat the old experiments of Ludwig and to study the effect of medullary resections on arterial tension. Ten dogs were used In eight of the animals the pressure did not vary during the resection nor up to four hours after the operation. Sometimes especially in cases in which the amesthesia was not deep enough resection provoked of itself a slight hypertension with great oscillations. As a rule however the tension did not vary. Hypotension occurred in only two mistances.

After resection of the cord hetween the second and third dorsal segments no vasionotor paralysis of the limbs and not even a fall in arterial tension was noted. In the two animals in which the blood pressure fell after medullary resection injury of the spinal veins with considerable loss of blood had occurred in the course of the operation. In the

cuth to thet animals there had been no less of blood Hypotension following resection of the cord is due not to a paralytic assolilation consecutive to the separation of the cord and the superior intrabulhar axomotor center but to an operative hemorrhagic shock which can be avoided by the use of a better technique.

It is generally believed that assometer toms is re-established after several hours or weeks. In two of the dogs the authors measured the blood pressure twenty two and eighteen days after the operation. In the 1rst the found a difference of 15 cm. If g. has late hypotension may be explained by the poor physiological condition of the animals tenty days after a high medullary resection. They had trophic disturbances with often considerable addems and exchars.

Loss of blood rapidly unbalances the vasomotor regulation and this produces a more considerable fall in pressure than that resulting from anemia itself. As soon as there is a full of pressure of hemor thagic origin the least nervous excitation is expressed 1v increasing depressie actions and the traumatic factor is added to the hamorthage factor the fix dement in the prevention of operative shock is careful hamostasis throughout the operation.

Pace

# GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

I oynton F J and Moncrieff A Infective Granu lomata and Streptococcul Infecti n La 1 1930 c 8

A gi l aged th treen months was admitted to the hospital vith s ollen glands of the neck which followed a had cold seen ceks previously. Before the devel prient of this condition she had heen healthy

The t mperature as 100 degrees  $\Gamma$  and the pulse 136. The cervical glands on the right side of the neck were enlarged and firm and seemed to adhere together. Gla dular enlarge ment as found also in the right a illa and both grot s. The che t and abdomen ere normal.

Text de nomme cet all of the glands had in Act de na ead neison of the right cerval nodes revised in size and neison of the right cerval nodes revised in size and neison of the right cerval nodes recorded at the occurrent in d of my consideration of the product of the product

The autopsy findings vere without interest e cept f r a m ss f adherent glands on e ther side of the neck which contained thin blood tinged pus Tle mass on the right side p essed upon the pharynt and there was redema of the glottis. The mediastinal glands were greatly enlarged. The liver was enlarged and contained two small white deposits suggest c of lymphadenomatous material The mesente of glands were normal. The right that and I gu glands were enlarged and beginning to break down Cultures of the heart blood showed hamolytic streptococci Histological examination of the lym phatic glands disclosed a definitely thickened cap sule and areas of engorgement with red blood cell and polymorphonuclear leucocytes There were areas of excess cosmophiles and en lothelial cells and many large multinuclear endothel al cells th centrally placed overlapping nuclei of the type as o ciated with Hodgkin's dease. The center of min of the lymphoid foll cles was invaded by endothel al cells. The areas in the liver all o showed endothel 1

The clinical appearance of the gland lar enlarge ment suggested Hodgkin's disease and the histo logical examination confirmed this impression. On the other hand there was direct evidence of a streptococcus infection. In di cussing the nata e of the infection the author points out that the sil must be considered as well as the nature of the He states that if in the case reported the streptococcal infection had been more virulent at the onset senticamis would have resulted whereas if the resistance had been greater the acute feature would not have been present and death would ha e occurred from cacheria and eardiac failure as in the typical case of hamphadenoma. Under the cicum tances the tissues put up a borderline response t the st eptococcus invasion which closely re embled Hodekin's disease

Ruling out the possibil ty that this was a case of lymphadenoma with a terminal streptococcus in fection are the age of the shild the lack of change in the blood picture which ould indicate leuksmis and the improvement in one group of glands with enlargement in another group in the ab ence of an obvious source of infection.

In conclusion the author advises against too rig d classification of di orders of the blood lymphoid clements and reticulo endothelial system occurrin in childhood William J Pickert MD

# D v II Some Complications of Hydatid D s a e B t J S g 93 275

The common site for the lodgment of the cm by he hydated is the liver. A hyd at doll cle forms which become vesicular in two or three weeks as fluid collects within the cyst an adve tituous cap use is formed about the inner laminited layer. It is almosted layer is elaborated by the palate and the adventious crysule by the fissue reaction of the host. With the formation of these covering all learage for on the cyst stops. The laminations is laid done if norm within out and and sho is tendened to firm is uries. However, they are the cyst of the layer have given the cyst of the cyst to turn inside out in case of ruptime. Within the cyst to turn inside out in case of ruptime.

the laminated layer there is a nucleated germinal layer which elahorates the laminated membrane

the specific fluid and the solices

Simple cysts are found typically in children and young adults. Hence the majority of cysts dis covered are nearly as old as their bosts. Though small cysts may cause early symptoms when they occur in certain situations such as the orbit or cranial cavity large cysts characteristically remain latent in many organs even producing deformity before they are detected. Attention is usually first at tracted to them by the complications resulting from escape of the cystic fluid.

General effects of the rupture of a cyst are first anaphylavus and later secondary echnococcoss. Spe ial sequelæ of rupture of a cyst into one of the natural channels are first mechanical effects and later suppuration in the cyst The most common symptoms are anaphylactic—a rash dyspinea cva nosis abdominal pain nausea delirum and perhaps profound cardiovascular shock leading to a fatal termination. Dew has divided his cases into three

types according to the clinical manifestations the

common henign the severe and the grave

Following the rupture or puncture of by data of cysts secondary echonococosis may take place. The Parasitic elements are so persistent that they are able to survive and ultimately develop often at a distance from the original cyst. Any of them can grow it implanted into the tissues under aseptic conditions. The cysts are always of slow growth taking from five to thelice years to develop. When rupture of a cyst take place into the heart or wenous system metastatic secondary cysts occur with consequent dissemination into the lungs or cerebrum.

The chief mechanical effects of rupture are clog ging of channels into which the rupture occurs with consequent signs of irritation of the part affected A bronchobepatic fistula may form causing the appearance of bule in the sputum and leading eventually to suppuration of the cyst. When a subpleural cvst involves a patent bronchus hydatid pneumothorax may result. In the majority of these cases pvo pheumothorax develops and may be confused with tuherculous pneumothorax. The right side is in volved more frequently than the left. There is tarefy any positive previous bistory.

CLARENCE V BATEMAN M D

#### DUCTLESS GLANDS

Coffey W B and Humber J D Extract of Adrenal Cortex Substance Cal form & West Med 1930 XXII 640

The authors restate the following premises of a previous communication

- I Among the control or governors in our Physiological make up there is a control or stabilizer of tissue grot th
- 2 This control or stabilizer of the development and multiplication of tissue cell is of the nature of an active principle or hormone

3 This hormone is produced by certain cellular elements of the hody which are found in considerable amounts in the cortex of the supragenal glands

4 This bormone or active principle may he produced also in other parts of the hody yet to he determined Extracts made from other tissues have been found to evert what is prohably an mulbibiory effect on cellular growth when normal cellular growth has been disturbed

5 This hormone or active principle is found in a highly potent form with an unmistakable effect upon malignant cellular growth in extracts made from a portion of the cortex of the suprarenal

glands

6 The extract containing the active principle has a destructive effect upon malignant tissues causing its necrosis and death without destroying normal tissues

In cluncal cases of malignant new growths the authors found that when extract of the suprarenal cortex was injected subcutaneously in graduated doses at definite intervals it caused marked necrosis in the areas of malignancy followed in a short period of time by sloughing when such a process vas anatomically possible. In cases in which the process was anatomically observable it was found that the tumor mass usually became necrotic and liquefied. Soon after the first injection the pain was often allevanted or ceased entirely.

At autopsy it was noted that metastatic areas of involvement showed evidences of necrosis although in some instances the areas were very small Microscopic examination of such presumably ne crotic tissues showed that the malignant tissue had broken down and degenerated and had become

necrotic

Injections were made when possible twice a week but in some cases only weekly injections were given. The dose was increased from 1 minim to a maximum in the average case of 12 minims.

The authors believe that previous \ ray and radium therapy delay the beneficial effects of the suprarenal extract. They conclude that the extract has a vasodilator action influencing the sympathetic system. They describe the method of preparing the suprarenal extract and cite numerous cases in which improvement followed its use.

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Deficiency of the pituitary gland may be limited to either the anterior or the posterior lobe but is usually due to both. Anterior lobe deficiency is indicated by arrest of growth small extremities and small tapering fingers and by sev characteristics such as small genitalia. Small breasts absence of hair and amenorthom. Posterior lobe deficiency is manifested by obe it, of the lower part of the

abdomen increased sugar tolerance a low blood pressure a reduced basal metabolic rate and occaionally the syndrome of diabetes insipidus

The diagnosis is aided by \ ray examination of the still \ \text{W}\_1 \text{ in the still Win at he self surrices as distinctive small is \ \text{when its diameter is less than one fifteenth of the skull diameter or when it is enclosed by h signing of the chnod processes the assumption of a decrease in the size and function of the pituitary gland splitting in tumor cases a decrease in the Feld of vision for color revealed by the perimeter is a help foll early finding Certain measurements are of salice. Normally the distance between the symphisis and the top of the head is equal to the d. tance between the symphisis and the soles of the feet. In pituitary disturbances the former measurement is usually greater than the latter. Lack of homeone from the materior follow arrests the growth of the loop bones.

In the treatment of thy ropituitary deficiency sufficient thy roid is given to bring the pulse to 96 in

the cases of adults and the rectal temper ture t og 6 degrees F in the cases of younger pati nis Pituitary gland sub tance is administered by mouth and by subcutaneous injection. The anterior lobe ubstance is given in do es varying from 15 to 45 gr daily The whole gland substance is administered in doses varying from 12 to 40 gr daily In extract of the anterior lobe substance is given by injection t com being given daily in extreme ca es and two or three times a seek in miller ca es In case of rostenor lobe deficiency extract of the po tenor lobe is given by injecting a c cm or more daily in severe cases and two or thre times a week in m lder ca es The most satisfactory results are obtained by the combined methods of treatment Patients have frequently been taught to give themselves the injections

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# OBSTETRICS

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The effect of the internal sec etions upon the division energy of par mec a G L ROIDENBURG J Cancer Pesearch 1930 XIV 509

Endocrine studies the endocrine influence in steril ty

1 W Rowe 7 1m M Ass 1930 xc1 1219 The action of the active principle of the posterior lobe of the hypophysis on the ba al metabolism M I CASTEX and M Schtengart Rev Soc argent de biol 1930 vi

E tact fad enale te ubsta e W B Correy and J D HUMBER Calif rn & West Med 1930 xxu 64

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# International **Abstract of Surgery**

Supplementary to

Surgery, Gynecology and Obstetrics

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# CONTENTS

1	Authors	1
П	Index of Abstracts of Current Literature	111 7.1
Ш	Abstracts of Current Literature	209 285
ΙV	Bibliography of Current Literature	286 312

# AUTHORS OF ARTICLES ABSTRACTED

# CONTENTS-MARCH, 1931

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		JAFFE P H Tubercle Like Structures in Human	
Head		Gotters  Lanné Azéran and Dreveus A Clinical Study of	214
DUFOURMENTEL L Temporomaxillary Ankyloses of Ob tetrical Ori in	200	Hyperthyroid Di orders  Dautrebande M L The Physiopathology of the	14
BUNEDICT F B and MEIGS J \ Tumors of the	209	Thyroid	14
Parotid Gland \ Study of 225 Cases with Complete End Re ults in 80 Cases	09	BERARD and PEYCELON The Sur <sub>o</sub> lcal Treatment of Hyperthyroidism	2 4
Eye		SALVESEN H A Observations on Human Tetany II Postoperative Tetany	215
PEROTTI D Roentgen Visib lity of the Eyeball and	210		5
the Possibility of Traumatic Pneumotenon  CLARA C P Eye Chan es Observed in Paretic	210	SURGERY OF THE NERVOUS SYSTEM	
Patients After Treatment with Malaria  Johns J P The Influence of Pregnancy on the	210	Brain and Its Coverings Cranial Nerves	
V ual Field	211	FORBUS W D On the Origin of Miliary Angurisms of the Superficial Cerebral Arteries	216
GONIN J The Treatment of Detached Petina by Searin the Retinal Tears	2 T	COURVILLE C B and ADELSTEIN L J Intra cranial Calcification with Particular Reference	
Method of Treatment of Detachment of the		to That Occurring in the Gliomata	2 6
Retina	217	DE MARIEL T Postoperative Accidents in Cere bral Surgery	216
Ear		PATON L Classification of the Opt c Atrophie	217
LEROUY ROBERT The Con estive Element in Deaf ness Treatment with High Frequency Cur ent	11	Pempheral Nerves	
GUILD S R Early Stares of Oto cleros s	212	Lon on P A Contribution to the Study of Ascend in Post Traumatic Neurit of the Extremit es	18
Weber M The Bone Picture of Otosclerosis The Theory of Its Experimental Reproduction	2 2	KESCHNER M and BERMAN W Tardy or Late Ulnar Neuritis	218
Nose and Sinuses		LUANS W. Intrasacral Ep dural Injection in the Treatment of Sciatica	2 8
STEWART D and LAMBERT V The Sphenopalatine Gan hon			
RAWSON R D Plastic Surgery on the Nasal	212	Sympathetic Nerves  Morrov J J and Scorr W J M Studies of the	
Pyramid Sheehan's Method  Lewis E R An Analysis of 100 Consecutive		Activity of the Lumbar Sympathetic Nervous S stem	9
Nasal Sinus Cases Treated Conservatively EGGSTON A A The Pathology of Chronic Smusitis	213	WEIGNER K The Anatomical Fundamentals of	
Brown R G The Sur copatholo ical Interpreta	•	Su gery of the Sympathetic System  Pieri G Chinical Contributions to the Surgery of	219
tion of the X Ray Appearances of Antral (H gh more) D1 eases	2 3	the Sympathetic Ner ous System The Treat ment of Nace ding Neuritis	220
Mouth		ROWNTREE L G ADSON A W and HENCH P S The Results of Resect on of Sympathetic Gan	
DE MELLO C A Method of Operat n for Per forations of the Hard Palate and for Cleft		glia and Trunks in Seventeen Ca es of Chronic Infectious Arthritis	70
Palate	213		•
Brants		Miscellaneous	
Neck THURMON F M and THOMPSON W O A Low		of Cerebrospinal Meningitis  The Treatment	21
Basal Metabol m W thout My ordema Oliffic V The Ouestion of 1 p d mic Go t r	213	RIDDOCH G Nervo and Mental Manifestations of the Chimacteric	246
a . The codestion of a p of some do -		•	

222

22

22

2

2 4

76

225

2 7

#### SURGERY OF THE CHEST

#### Chest Wall and Breast

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3

23

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31

3

23

31

54

34

34

35

235

35

36

36

37

38

38

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230

24

Son strater II Th Clasal Petur a d Pathoge es of Intesti 1 Tube cul sa d Its C m Il catio s

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#### Liver Gall Bladder Pancre s and Spicen

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Piliary L th as CLISCHER T The Pract al Importance of S t e

of the Common Pil Duct BER HARD F Th Val e of Plood S ga and Dasta D term to s n th D g the D term at on I the Operat e Indicate a d Aft Te tme t n icut D caces I the P c tas

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STAPERO P I MI st is of Thy d Ts. ! 1bd mm lOg n

	BRANDSTRUP C On the Passage of Some Sub- stances from Mother to Tetus in the Last Part	
		250
41		
		250
2.12	Sequestration of the Lidneys in Pre nancy	
	(Symmetrical Cortical Necrosis)	251
242	Brown R C The Intestinal Origin of Eclamps a	251
	Corre Cyst of the Corpus Luteum and Pregnancy	251
242	Eiss S Pregnancy with Bilateral Ovarian Cysts	252
243	Labor and Its Complications	
	BURGER P Spasmodic States of the Uterus and Their Treatment	252
	TAGLIAFERRO P A Case of Pupture of the Uterus	•
229		25
	HASSELBLATT R Clinical Studies of Intraperito	
43	Low Casarean Section Especially the So-Called	253
44	20	-33
	Newborn	
4	ARILENBERG H The Later Fate of Children	
	Delt ered by Forceps	54
245		
245	GENITO URINARY SURGERY	
252	•	
252	SCRIVER W DE M and OERTEL H Necrotic	
252	SCRIVER W DE M and OERTEL H Necrotic Sequestrat on of the Kidneys in Pregnancy	<b>51</b>
252	SCRIVER W DE M and OERTEL H Necrotic	51
•	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the Kidneys in Pregnancy (Symmetrical Cortical Necrosis)	51 255 255
•	SCRIVER W DE M and OFFICE H Necrotic Sequestrat on of the Airdneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  CAMPELL M I Pe insphrittic Ahsecss  RAFFO V The Effect of Denervation of the Renal	253
•	SCRIPER W DE M and ORBERL H Necrotic Sequestrat on of the Kidneys in Pregnancy (Symmetrical Cortical Necrosis) LE FUR Pararenal Tumors CAMPBELL M I Pe inephritic Abscess RAFFO V The Effect of Denervation of the Renal Peduncle and Urete in the Product on of	255 255
•	SCRIVER W DE M and OFFICE H Necrotic Sequestrat on of the Entideys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUE Pararenal Tumors  CAMPBELL M I Pe inephritic Abscess  CAMPBELL M I Pe Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Dibatation of the Upper Umnary T at	253
246	SCRIER W DE M and ORERLE H Necrotic Sequestrat on of the Kidneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FOR Pararenal Tumors  CAMPERLE M I P enophritic Abscess  RAFFO \ The Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Uninary T act  WALTERS W Resection of the Renal Pedus for	255 255 256
246 46	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the Audience in Pregnancy (Symmetrical Cortical Necrosis)  LE FUE Pararenal Tumors CAMPBELL M I Pe inephritic Abscess  RAFFO V The Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Uminary T act  WAITERS W Resection of the Renal Pelvis for Hydronephrosis Its Complications and Results	255 255
246	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the Audience in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  CAMPBEL M I Pe nephritic Abscess  RAFFO V The Effect of Dener-ation of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Urinary T act  WALTERS W Resection of the Renal Pelvis for Hydronephrosis its Complications and Results  LAZARGS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication	253 255 256 56
246 46	SCRUER W DE M and ORRILL H Necrotic Sequestrat on of the Ludneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FOR Pararenal Tumors  CAMPERLE M I Penophritic Abscess  RAFFO V The Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Urinary T act  WALTERS W Resection of the Renal Pelus for Hydrocephrosis Its Complications and Results  LAZARUS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es	255 255 256
246 46 246	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the kindneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUE Pararenal Tumors  CAMPBEL M I Penephritic Abscess  RAFFO V The Effect of Dener-ation of the Renal Pedunde and Ureter in the Product on of Dilatation of the Upper Urinary T act  WAITERS W Resection of the Renal Pelvis for Hydronephrosis Its Complications and Results  LAZARGS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es  ROWEY J A and BENERT G A Squamous Cell	255 255 256 56
246 46 246	SCRUER W DE M and ORRILL H Necrotic Sequestrat on of the Ludneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FOR Pararenal Tumors  CAMPERLE M I Penophritic Abscess  RAFFO V The Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Urinary T act  WALTERS W Resection of the Renal Pelus for Hydrocephrosis Its Complications and Results  LAZARUS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es	253 255 256 56
246 46 246	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the kindneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUE Pararenal Tumors  CAMPBEL M I Penephritic Abscess  RAFFO V The Effect of Dener-ation of the Renal Pedunde and Ureter in the Product on of Dilatation of the Upper Urinary T act  WAITERS W Resection of the Renal Pelvis for Hydronephrosis Its Complications and Results  LAZARGS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es  ROWEY J A and BENERT G A Squamous Cell	255 255 256 56
246 46 246 246	SCRIVER W DE M and OREILL H Necrotic Sequestrat on of the kindneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  CAMPBELL M I Pe inephritic Abscess  RAFFO \ The Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Urinary T act  WALTERS W Resection of the Renal Pelvis for Hydroephrosis Its Complications and Results  LAZARES J A Heminephrectomy for Calculous of the Ureters and Pel Bilateral Duplication of the Ureters and Pel Sequence of the Upper Urinary C A Squamous Cell Ca China and Bennett G A Squamous Cell Ca China and Penns  PORCHER A Fourteen Cases of Cancer of the	255 255 256 56
246 46 246 246	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the Audience in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  CAMPBELL M I Pe nephritic Abscess  RAFFO V The Effect of Dener-ation of the Renal Pedunde and Uteter in the Product on of Dilatation of the Upper Urinary T act  WALTERS W Resection of the Renal Pelvis for Hydronephrosis its Complications and Results  LAZARGS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es  BOWEY J A and BENERT G A Squamous Cell Ca cinoma of the Kidney Pel s  Bladder Urethra and Penis  POECRET A Fourteen Cases of Cancer of the Bladde Terated by Electrocoagulation Directly	255 255 256 56 257 257
246 46 246 246	SCRIVER W DE M and ORBILL H Necrotic Sequestrat on of the Kindreys in Pregnancy (Symmetrical Cortical Necrosis) LE FUR Pararenal Tumors LE FUR Pararenal Tumors RAFFEL M I Penophritic Abscess RAFFO \ The Effect of Denerration of the Renal Peduncle and Ureter in the Product on of Dilatation of the Upper Urinary T act WALTERS W Resection of the Renal Pelvis for Hydrosephrosis Its Complications and Results LEARRES J A Hemmephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es BOWEN J A and BENNETT G A Squamous Cell Ca cinoma of the Kidney Pel s Bladder Urethra and Penus POECREE A Fourteen Cases of Cancer of the Bladde Treated by Electrocoagulation Directly Throu ha Supraphic Incission	255 255 256 56
246 46 246 246	SCRIVER W DE M and OERIEL H Necrotic Sequestrat on of the kindneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR PATATERIAL THINDES CAMPBELL M I PE inephritic Abscess RAFFO V The Effect of Dener-ation of the Renal Pedunde and Ureter in the Product on of Dilatation of the Upper Urinary T act WAITERS W Resection of the Renal Pelvis for Hydronephrosis Its Complications and Results LAZARGS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilaterial Duplication of the Ureters and Pel es ROWEN J A and BENEMET G A Squamous Cell Ca cinoma of the Kidney Pel s Bladder Urethra and Penis POPCAEL A Fourteen Cases of Cancer of the Bladde Treated by Electrocoagulation Directly Throu h a Suprapuble Incision GOLDSTEIN A DE and ABESHOUSE B S Post	255 255 256 56 257 257
246 46 246 246	SCRIVER W DE M and OERIEL H Necrotic Sequestration of the kindneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  CAMPBELL M I Penephritic Abscess  RAFFO \ The Effect of Dener-ation of the Renal Pedunde and Ureter in the Product on of Dilatation of the Upper Urinary T act  WAITERS W Resection of the Renal Pelvis for Hydronephrosis Its Complications and Results  LAZARG'S J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es  ROWEN J A and BENEMET G A Squamous Cell Ca cinoma of the kidney Pel s  Bladder Urethra and Pemis  POPCKEL A Fourteen Cases of Cancer of the Bladde Treated by Electrocoagulation Directly Throu has Suprapuble Incision  GOLDSTEIN A E and ABESHOUSE B Post operatic e Urinary Incontinence A Review of the Literature and a Report of Cases	255 255 256 56 257 257
246 46 246 246	SCRIVER W DE M and ORRILL H Necrotic Sequestrat on of the kindreys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  LE FUR Pararenal Tumors  RAFFOL M I Pe inephritic Abscess  RAFFO \ The Effect of Denervation of the Renal Peduncle and Ureter in the Product on of Distation of the Upper Urinary T act  Walters W Resection of the Renal Pelvis for Hydrosephrosis Its Complications and Results  LAZARUS J A Hemmephrectomy for Calculous to the Ureters and Pel seponenhrosis in a Case of Bulateral Duplication of the Ureters and Pel seponenhrosis in a Case of Bulateral Duplication of the Ureters and Pel seponenhrosis in a Case of Bulateral Duplication of the Ureters and Pel seponenhrosis in a Case of Bulateral Duplication of the Ureters and Pel seponenhrosis in a Case of Cancer of the Bladder Urethra and Penus  POECEKE A Fourteen Cases of Cancer of the Bladde Treated by Electrocoagulation Directly Throu ha Suprapuble Incision  GOLDSTEIN A E and ABESHOUSE B S Post operative Urinary Incontinence A Review of	253 25\$ 256 56 257 257
246 46 246 246	SCRIVER W DE M and OERTIL H Necrotic Sequestrat on of the Airdneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUE Paragenal Tumors  RAFFO W The Effect of Denerration of the Renal Pedunde and Ureter in the Product on of Dilatation of the Upper Urinary T act  WALFERS W Resection of the Renal Pelvis for Hydroephrosis Its Complications and Results  LAZARUS J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel s  ROWEN J A and BENNETT G A Squamous Cell Ca cinoma of the Kindey Pel S  Bladder Urethra and Penus  POECELE A Fourteen Cases of Cancer of the Bladde Treated by Electrocoagulation Directly Throu ha Suprapube Incision  GOLDSTEIN A E and ABESHOUSE B S Post operative Urinary Incontinence A Review of the Listentature and a Report of Cases  SUSMAN M P Paget's Disease of the Glans Penis	255 256 56 257 257 257
246 46 246 246 247	SCRIVER W DE M and OERIEL H Necrotic Sequestration of the kindneys in Pregnancy (Symmetrical Cortical Necrosis)  LE FUR Pararenal Tumors  CAMPBELL M I Penephritic Abscess  RAFFO \ The Effect of Dener-ation of the Renal Pedunde and Ureter in the Product on of Dilatation of the Upper Urinary T act  WAITERS W Resection of the Renal Pelvis for Hydronephrosis Its Complications and Results  LAZARG'S J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pel es  ROWEN J A and BENEMET G A Squamous Cell Ca cinoma of the kidney Pel s  Bladder Urethra and Pemis  POPCKEL A Fourteen Cases of Cancer of the Bladde Treated by Electrocoagulation Directly Throu has Suprapuble Incision  GOLDSTEIN A E and ABESHOUSE B Post operatic e Urinary Incontinence A Review of the Literature and a Report of Cases	255 256 56 257 257 257
	242 243 229 43 44	stances from Mother to Fetus in the Last Part of Pre nancy.  11 ESCH P The Treatment of Hyperemesis Gravida rum  Scriver W DE M and Office H Necrotic Sequestration of the Lidneys in Pre-nancy (Symmetrical Cortical Necrosis)  242 BROWN R C The Intestinal Origin of Eclamps a Corte Cyst of the Corpus Luteum and Pregnancy 242 EISS S Pregnancy with Bilateral Ovarian Cysts  243 Labor and Its Complications  Busger P Spasimodic States of the Uterus and Their Treatment TAGLIAFERRO P A Case of Pupture of the Uterus 243 Diffin, Labor HASSILAUT R Clinical Studies of Intrapento neal Casarcan Section Lapecially the So-Called Low Casarcan Section  44 Newborn  45 KRULENBERG H The Later Fate of Children Deli ered by Forceps  46 GENITO URINARY SURGERY

249

249

250

Miscellaneous

Acid

Swick M. Intravenous Urography by Means of the Sodium Salt of 5 Iodo-2 Pyridon N Acetic

239

BEHNEY C A C tra Ute me Pregnancy
HELIMUTH K and TIMPE O The Change in the
Amount and Form of the Blood Calcium During
Pregnancy

Puppel E Placenta Prævia

JACHES L Intrave ous U g aphy (Swick Method) 250	ALLEN A W. Pe tAd no the Tre tme tof
KUTZMANN A A A N w Ur graph e Med m	Cir I tory Distu b es f the E tremit s
Emulsufi d Camp odol 6c RIAALDI R Essent al Hæmaturia 26c	ten ( tanama
The Library of Library and Lib	Rose THAL S R Thrombosis and Fmbol sm
CUDGERY OF THE BONES TOWNS ASSESSED	JAEGER F The T atment f The mbo s d
SURGERY OF THE BONES JOINTS MUSCLES TENDONS	Intombophici 13
	LERICHE R d l'ONTAI E L A Co tribution t the Experim tal Study of th Mecha sm of
Conditions of the Bones Joints Muscles Tendons Etc	Acts of Loat nof the Ve Oblt to f
G NER V a d BOAS H A C se of Ge hard Oste t s D fo ma (Pag t) with S co day	the Art ry 273
Malg t Deg nerat 262	Blood Transfusion
FRANCE CHINT I and MAGLIULO 1 Th Struc	Harmon Y and Town O. Th. Ch
t and G owth of F Joint Bodes 62	Amo ta d Fo m f th Blood C ! m D
Vito LETON D 5 The Pathology i Conge tal To t colh	I regn cy 49
HELLFORS A Dupl y s D sease 262	
SETT RT E P of 1 Staff g of the Sh ld r	I at the I A mm a Can d by the Ros to
flum ro cap 1 r Penarthritis 263	kay and R duo-1ct S b tances 82
KEYDU A Obst t cal Far ly s f the Upper E tremity 263	
BLAIN L S Spondyltis Taum tca Trda	Lympa Giantos and Dymphatic Vess is
(Ku mmell's Disease) 6;	NEVAREZ 11 C Mes to ic Lymp! d nit Adults a Caus of I so do-App d citis Ind re
REDERFE C The Path g ness of th A mmell \text{rne   Syndrom 6;}	
f E ROTTI G Rem te R lts of the Suboccip tal	felcutia T a d Price A F Mill C D
I je t n f L podol n Pott s Disease with	d th Mikulez Syndom Th T atm t by I rad ation 4
Prapiga 65 Rocher II L ad Roudil G Fu to al Di	LOFFER M d L STAIRE A focult n the the Blood and Ur f T fat ts with
t ba of th H p ndS cro-lhac fo nt 265	the Blood and Ur IT fat is with Ifod in s D se 75
H DERS V M S Injunes to th Sm lu	
C rtil ges of the An J 1 t 265	
Surgery of the Bones Joints Muscles Tendons Etc.	SURGICAL TECHNIQUE
LAUVER M E The Signal T atme t f	Operativ Surgery and Techniq e Postope ati e Treatment
Oh t t cal Paralysı 266	
JANIK A The Res lts f T atm t f Tub  1 s of the lio 2 a d Joints 66	C TIFSMA J PERLA D and Zeitzler J M. The Effect I the I lectrocaut ry Norm 1 T e 76
Is of the Bo and Joints 66 RADICKE K R lts f Operatio for O teo hop	O ERECET P If Post perat I lmon ry Hypo-
d t Di can 68	etlt a 76
Ilic G The C a Va a f Ad lesce 268	Antiseptic Surgery Treatment of Wounds and In
C LARRIER and CH REONNEL I BY the plates of th L ce 69	
in it to	Frat R SummalT tmnt (Rent Acd nts 76
Fractures and Dislocations	SE CL HANSSEN I St d s W dI feet s 76
Y ung 1 The Te tme t of I ctur's by Ope	A office of
Oprto a dDetFition 269 HENDER OV MS Habt 1Dleat f the	
Shuld 70	Ho STENEG W A A t Va co s Child en 277 Andref Thomas The Cauda Lqu a Synd en 1
Bognán I von The D O an Ochl ck Luxa	Sp al A tsth a 77
to Irate 6th Writ 7	Jo ES W H N w Method of I du g Sp n 1
MCKENNAH Fr turs of the N cl. f the F mu wth Spc 1 R feenct the T tm t of	
Int acap ul r F ct r 7	Sp l Angsth a light Pyram d Sg
	Fou dat Ch cal E mn to fPrs n Sub- cted to Op at on
	I created the arrow

# SURGERY OF BLOOD AND LYMPH SYSTEMS

#### Blood Vess Is

I ORB S W D O th Origin f Milary A mis f the Sup fi 16 b 1 1 t 216

gery

DE QUERVAIN F Intra Abdominal Radium Sur

PHYSICOCHEMICAL METHODS IN SURGERY

Roentgenology		gery	281
PEROTTI D Roentgen Visibility of the Eychall and the Possibility of Traumatic Pneumotenon Waters C A The Poent, endo ical Diagno is of Papilloma of the Duodenum Matthews H B The Roent en Ray as an Adjunct in Obstetrical Diagno is Swick M Intravenous Urography by Means of the Sodium Salt of 5 Iddo 2 Lyridon N Actic Acid Jacres L Intravenous Urography (By the Swick Method) KUTZMANN A A New Urographic Medium Emulsified Campiodol PERROTTI G Remote Results of the Suboccip tal Injection of Lipiodol in Potts Disease with	210 23 249 59 259 260	Miscellaneous  Lerouv Robert The Con estive Element in Deaf ness Treatment with Hi h Frequency Current BOCCAEL A Fourten Cases of Cancer of the Blad der Treated by Electrocoagulation Directly Throu ha Suprapuble Incision  GOTTESMAN J PERLA D and ZHEGLER J M The Effects of the Electrocautery on Normal Th sues Regument C The Radiophysiolo ical Principles of the Padoitherapy of Cancer  LIBBIN P Anaemias Caused by the Roentgen Rays and Rad o Active Substances  MISCELLANEOUS	211 257 2,6 281 282
Pamplegia  CAPPELLI L. Padio Anaphylaxis in the Normal Organism  GLASER M A Campiodol (Iodized Rapeseed Oil)  Its Use in the Roent, enolo ical V isualization of the Body Cavities  DESJARDINS A U Irradiation as a Means of Dif ferentiating Certain Varietie of Tumors	265 80 280 283	Clinical Entities—General Physiological Condition DESIARDINS A U Irradiation as a Means of D f ferentiating Certa a Vaneties of Tumors EWING J Problems of Vielanoma TRIVES N and PACS G T The De elopment of Cancer a Burn Scars An Analys s and Report of Thirty I our Cases	283 283 283
Radium		General Bacterial Protozoan and Parasitic Infect	tions
Weibll W Operation and Irradiat on in Cancer of the Uterus  DONALDSON M Radium in Menorrhagia and Irregular Uterine Hæmorrhage	43 247	BRENTIALL C G The Medical Treatment of Anthrax  JOPSON J J and EIMAN J The Serum Treatment of Bacteræmia Due to the Hæmolytic Strep	284
KREIMAVIE M L. The After Effects of Intm Uterine Radium for the Production of the Artifical Memopause  Astr. M. L. Dosage Measurement in Surface Radium Therapy  QUICK D Radium in Cancer Therapy	247 280 280	D AUNOY R and BEVEN J L Systemic Blasto mycoss ACTON H W and R40 S S Facto s Which Determine the Differences in the Types of Les ons Froduced by Filaria Bane ofti in India	284 285 285

# **BIBLIOGRAPHY**

Surgery of the Head and Neck	Genito-Urmary Surgery
I ye     25       L r     28       A s a d S uses     26       M th     3       Phrynx     26	7 G tal Organs 3 7 Viscell eo s 3
S rgcry of the Nervous System  Bra and It g Sta l res so SpaiC d d It (engs sq I rph ral re es ympath t es	Surgery of the Bones Jonts Muscles Tendons Lite Surgery of the Bones Jonts Muscles Tendon Lite Surgery of the Bones Jon
M cella eo s	Surgery of the Blood and Lymph Systems
Surg ry of the Chest  Ch st W ll d Dr t  Tracha L n and lle  If ta d P c d m  Gsophagu a   Med ti m  M e E secure	Blood Vess Is   20     Blood Tra f   3     K ti forl of thel   System   30     Lymp h Clands and Lymphate Vessel   3
Adn val d f n t C dit E t m l G t ha	Physicochem cal Methods in Surgery   3   77   Kod m
Labo nd Its Complext n 30 Puerpe m d It C mplicat n 3 N who 3	Cl cal E t trea-General Physiol g cal Cond u s 31 99 Ge eral B eternal I not on a d Paras tic Infec

# INTERNATIONAL ABSTRACT OF SURGERY

MARCH 1951

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

#### HEAD

Dufourmental L. Temporomaxillury Ankyloses of Obstetrical Origin (Le ankyloses temporo maxil laires d'origine obstetricale) Bill et mem Soc d'oh turgiens de Par 1930 vui 502

Since Massart's study of obstetrical injuries as a cause of ankylosis of the jaw the author has restudied his own cases with regard to the responsibility of obstetrical injuries for the development of the condition

Of sixty five cases a definite cause of another nature could be discovered in forty eight. In seven teen cases the cause was obscure hut in eight of the seventeen the patient's mother gave a history of difficult lahor terminated by force. In two cases Monceau is maneuver had been used.

A peculiarity of the ankylosis due to obstetrical increase is the constant hypertrophy of the hone. This is a general characteristic of ankyloses developing during early infancy. At the site of the joint there is an enormous hio k of hone. The former joint line is represented merely hy a groove

In ankyloses due to other causes atrophy of the

component parts of the joint is the rule

The author disapproves of the usual treatment of temporomavullary ankylosus—sectioning of the man dible through the ascending ramus. While the operative difficultie are fewer the functional results are less favorable than when the jaw is mobilized by cutting directly through the block of bone forming the ankylosis.

In the discussion of this report Massarr pointed out that the obstetrical injuries resulting in tempo romavillary ankylosis occur in cases of difficult labor in which survival of the infant and mother constitute an excellent result even though a fracture dislocation or ankylosis is produced. Moreover be believes that the cartilages of the infant have been rendered abnormally fragile by syphilis or some other constitutional disease.

ALBERT I' DE GROAT MID

Benedict E B and Meigs J V Tumors of the Parotid Gland A Study of 225 Cases with Complete End Results in 80 Cases Surg Gyn c & Obst 1930 h 620

The authors define mixed tumors of the paronid gland as benign growths of varying histological structure Ewing states that an endothelial origin of these neoplasms has heen disproved and that no single source will explain all of them. He helieves that the derivation of mucous tissue and cartilage from gland epithelium has heen satisfactorily proved

Fr concludes that the so called mixed tumors of the salivary glands are not mixed tumors but entirely of epithelial origin and that the mucinous material which is present in most of these neoplasms is a true secretion of mucin from the tumor cells. He states that the tumors do not contain cartilage that the substance described as cartilage is formed by the change in the mucin of the tumor and that the cells are epithelial cells. Some of the tumors show varying degrees of malignancy and there is no dividing line hetween those that are henign and those that are malignant.

Eving classifies tumors of the parotid glind into (r) being adenomata (2) malignant adenocarcino mata or carcinomata and (3) autochthonous mixed tumors He classifies mixed tumors as (1) my to chondrocarcinomata (2) basal celled carcinomata with a hyahne stromi and (3) adenoid cystic epitheliomata

Parotid tumors may occur at any age Benigh tumors are more apt to occur hefore the age of forty years whereas malignant tumors usually begin after the age of forty years. Tumors of the parotid occur with equal frequency in males and females and on the right and left sides. Persons with malignant tumors usually seek methical advice much sooner than tho e with benigh tumors. In the majority of cases of inved tumor there is no pain whereas in cases of mixed tumor there is no pain whereas in cases of malignant tumor pain is fairly common. The puin is described as cramp like very severe or neuraligic. It is prohably due to pressure on the fifth nerve. The

tumors vary greatly in size Mclarfan I rep rted a neoplasm of the parotid high weighed 26 lb Searly

all parotid tumor are hard

In practically every case the treatment should be surgical. Madium and Vray irradiation are only palliative and never curative. At the time of opera toon a frozen section should be extramed by a patholog st. If malignancy is found removal of the entire parotid gland is the complete dissection of the enter barrows to do the control of the control of

Finapsulation suggests that the tumor is benign lut in every case care should be taken in removing the tumor to a old rupturing the capsule and di

seminating the cells

Ligation of the external carotid artery lessens the kamorrhage during the operation but under no cir cumstances is I gation of the common carotid justified. When the surgeon must choose between an operation linch ill result in fixeal paralysa and a proce fur which will feen we the groot incompletely he frequently chooses the latter but when the tumor returns paralysis often follows from pressure on the nor e. In a case cited by the authors the common co

Mixe I tumors frequently recur I ut the recurrence is almost always benign an I metastases are never formed In care nom the pr gno is a poor very few cures having been obtained. I ocal recurrence after removal is Iten ery prompt occurring after a period f month rather than ye rs from care nom may be formed in the lungs or the bones The length of life after operation is almo t invaluably slort. In surcoma, the prigno i is poor but apprently n t so p or as in carcin ma there is no reco d of distant netastrises from a reoma of the parotid but surcomata rapidly infiltrate neigh bori g structures lymph sarcomata metastasi ing by the lymphatics and f bros reomata pr bably by the bl od stream I V B Sun. M D

#### EYE

Perotti D. Roentge 1 Vi ii lity of the lyebull and the Po shillty of Truum tic Pne instenent (S l k, t tod || bit 1 do | c d l i || l o l || l p bit 1 d u p m t t m i j R g t d l r p 93 6 3

The author reports to cases of trauma of the face in which the eyeball surrou ded by a trasparent ring vas visible in the roetice, is sture. He thinks this finding was due to emphasema of the fatty tissue if the orbit and was an indurect sgn of

fracture of the lamina paysracea of the ethmod through shich air entered the orbit from the ethmod sinus

noi i sinus

At first the picture looked like that of pineumo tenon the presence of air in Tenon's space which is use I for diagnostic purposes but Tenon's capsule is separated from the lamin p pracea of the eth mod I'v like latty tissue of the orbit and a reoming from the ethmoid mus vould strke the fatty tissue of the orbit first. Tenon's capsule is made up of two folls connected I'y numerous septa and with a space I etween them II the picture had been that of pineumotenon it would have meant that is also fragment of the lamina papurace had traversed the fatty tissue and lacerated the external fold of the capsule.

Moreover in picumotenon the transparent, ring around the e-health does not reach the base of the orbit as it did in the case reported and it surrounds the viloe incrumfer nee of the evelal whereas in the author's cases it was interrupted by opaque zones at the upper angles of the orbit. The supero external opacits in one of the author's rates has a probably due to the shado. It he laft ring if ind and the supercenternal opacits in the other to the shado it has for first grounds and the supercenternal opacits in the other to the shado they are the supercenternal opacits in the other to the shado for off it is supercenternal opacits in the other to the shado of the supercenternal opacits in the other to the

tures outside of Ten n s car sule

Another fin ling policiating that the air infiltrated the fatty tissue rather than Tenon's capsule was that it had entered the 1 teral recess of the frontal sinus through a fracture of the floor of the sin's lich is in immed atc contact, with the fatty is use of the orbit and not with Tenon's capsule

In the first case the infiltration of air lasted for about first eight lours and in the second for about to ents four hours. It did not cause any troublesome symptoms. At EL G. Morol. MD.

Cla L G P Fye Cl nge Obsert d in P retic P tients After Treatment with Mala in 4m J Oct 1 930 v 1 946

The author belie es that the improvement in pares a after malified er therapy is to be attributed to stimulation of the delense reaction of the retuculo-endothelial system the increased temper

ture and the hyperaemia In the series of ffty cases hich I e review s the mental cond t on p ecluded the poss bility of certain subjective e aminat ons Dur ing the course of the treatment ocular hæmorrhages occurre lin to cases and bilateral neur retinitis de vel pe i in one case. In the author's op min these vere probably lue to the quinine There vas no marked change in central acuity. In only one case vas there an e tra ocular pals. This hid not im pr ve The pupil of six patients a ere not impro ed by the mularial treatment I enty to patients fad a fef nite pathological lesion in som port on of the fundus In eighteen there ere change in the nerve head Ti el e sho ed dec ded impro erren ifter subsidence of the malana I ur of twent) s hose mental ty perm tied a perimetrice am nation showelteld impro ement V RG L Wescorr M D

Johns J P The Influence of Pregnancy on the Visual Field 4m J Ophth 930 vin 956

The findings of a study of the visual fields during pregnancy in twenty nine young women are sum marized as follows

- I Definite concentric contraction of the form and color fields occurred in the majority of the cases re-
- 2 The blind spot was enlarged in the majority of the cases
- 3 The general reduction of retinal vitality as shown in the field changes paralleled the decrease in vitality through the pregnant state which was noted in endocrine studies

The field studies did not show the characteris tics of a pathological condition of the pituitary

The author concludes that the field changes in pregnancy prohably depend upon a functional modification rather than enlargement or vascular changes in the pituitary gland

VIRGIT, WESCOTT M D

The Treatment of Detached Retina by Searing the Retinal Tears 4rd Opin 1930 IV 621

lay C E A Modification of Gonin's Surgical Method of Treatment of Detachment of the Finlay C E Retina Arch Ophth 030 1 662

GONIN reviews 300 operations performed on 50 patients in which detachment of the retina was

treated by searing the retinal tears

He states that in more than or per cent of the cases in which ophthalmoscopic examination is possible I or several holes may he detected in the retina if a careful search is made. In about 10 per cent of these cases the lesion is not a hole in the retinal tissue but a rupture or tearing away of the insertion of the retina at the ora serrata In all recent cases in which the hole or tear is closed an immediate complete and permanent cure is obtained. In older cases closure of the tear stops the detachment and may cause more or less complete replacement of the retina but restoration of vision generally remains incomplete

If the detachment recurs it will be found that the tear was not completely closed or that another tear was overlooked Recurrence of detachment in a different region of the eye is due to the formation

of a new hole in the retina

FINLAY reports a modification of Gomn's tech nique which is intended to prevent the formation of a fistulous opening from necrosis of the wound

margin

In this procedure he incises the conjunctiva and Tenon's capsule down to the sclera and makes a series of longitudinal cuts in the sclera with a Graefe knife until retinal fluid is exuded He then cauterizes the scleral surface superficially about 0 5 mm from the edges of the wound sutures the con junctiva and applies a pressure handage

VIR IL WESCOTT MD

#### EAR

Leroux Robert The Congestive Element in Deaf ness Treatment with the High Frequency Current (L element congestif dans la surdité son trastement par la haute tension) Presse med Par 930 TTTLU 1377

The treatment of deafness is very complex. The physiology of hearing is still in a process of evolution and there is much that is still unknown regarding it Except in the rare cases of permanent deafness due to an incurable lesion such as occurs in certain infec tions complicated by acute labyrinthitis (mumps fever) hæmorrhagic lahyrinthitis (arteriosclerosis) or intracranial lesions (thrombosis embolism men ingoneuritis) chronic types of deafness are progres sive and present a lesion in the process of develop ment

In otosclerosis tympanosclerosis labyrintho sclerosis otospon iosis cicatricial otitis and tuhal catarrh there is frequently a hyperæmia. All of the medical treatments of otospongiosis consist of the use of a vasoconstructor such as pituitary extract ergot or adrenalm The surgical procedures sug gested such as ligation of the external carotid or the middle meningeal artery have a similar purpose Most of the methods usually employed to induce vasoconstriction are soon followed by vasodilata tion

The author advocates the local application of the high frequency current which produces vasocon striction through its action on the sympathetic Terracol has shown that the auditory apparatus is dominated by the cervical and periarterial sympathetic and is susceptible to vasomotor reactions

Among the chronic progressive types of deafness may be included those based on hyperæmia due to an endogenous tovemia (azotæmia uricæmia glycæ mia ovalæmia cholesterinæmia) and those hased on hyperæmia due to an exogenous tovin (quinine sali cylates alcohol tobacco) which increas arterial tension

The ordinary alternating current may he stepped up hy a special apparatus to a voltage of from 30 000 to 40 000 and a frequency per second of from 2 000 000 to 3 000 000 The current is applied by a special condensing electrode to the external auditory canal The treatment lasts ten minutes and is carried out every day for from eight to fifteen days

The indications for the treatment are all types of deafness due to non suppurative ofitis tubal ca tarrh otospongiosis otosclerosis and adhesive com

plications after suppurative ofitis

The contra indications are convalescence from a suppurative otitis media (the ear should not he treated with the high frequency current unless there has been freedom from discharge for a month or so) and the presence of vertigo an indication of laby rinthitis

The author reports briefly thirteen cases of differ ent types of deafness which were treated with the high frequency current and in which objective tests seem to indicate considerable improvement in hear

ing. It appears that the functional types of deafness based on d sturbances of the sympathetic are most favorably influenced by this type of treatment.

JACO L KLEIN MD

Gulld S R Early Stages of Otoscle is trk

The author is of the opinion that otosclerotic change may be in as early as the end of the first year of postnatal life

The site of the first changes near the anterior margin of the oral fenestra is not the same in all cases and the fissure in front of the fenestra is not all axis involved in the beginning of the pathological

Defore inkulosis occurs a sulcus in the surface of the otosclerotic area near the mirgin of the onal fonestria is frequently present. This sulcus is filled fonestria is frequently present. This sulcus is filled for the property of the control of the property of fill the intercening space bettered seats. In the fill the intercening space bettered area of the fill the intercening space bettered area of the anticonercia of the stypes. In some cases at least ankilosis begins to the formit in grouth and coalescone of scattered areas of calciferation in the dense forous tissue and in the annular ligament. An area of otosclerosis may appear near the anterior margin of the oval fenestra grout to considerable size and become quiescent without the formation of calcified connections to the foot plate of the stapes

Ankylosis must be well started before a clinical diagnosis of otosclerosis is possible by the methols of examination in use at the present time

JA ES C BRAS TELL VI D

Neb Mr Tie B ne P cture of Ot cle osis Tie
Theory of Its Fxpe Imental Repr duction
1 1 Ot 1 1 1 1 93 6 8

We her states that the home picture of obsolerous is dentical with the home picture of a loc I acid o teo dyst opina fibro and that bischemical analyses have always sho no tookeleous is to be accompaned by a general ed diurbance of metabolism which might e life ext an influence on the general homy system. The elationship of otosclerous to osteo mal cia pregna ev. and Gaucher's desage may be explicitly distributed by the samption that the generalized distribution of met b lism does not always have the same general bischem call aspects.

JAMES C BRAS VELL M D

#### NOSE AND SINUSES

Stewart D and L mbe t V Tle Splenopalatine
Ganglon J L y g l & Ot l 1930 l 753

Formerly the sphenopalatine ganglion was leheved to be the cause of many obscure headaches but today doubt has ar sen as to its relationship to name of the symptoms once ascrabed to it. The authors conclude that a trophic influence exerted on the nasal mucosa by the ganglion is not supported by experiment levidence. They emphasize that any phenome a produced by treatment of the region of the gan hon cannot be separated from the effects of involvement of the nerves of the sphenomiculary region as a whole

Attention is called to a type of neuralgia pain about the head and neck which differs from true tie dolouteur due to masil infect on but the neuro logical nature of which is obscure

GFORGE R MCAULIFF M D

R1 on R D Plastic Su gery on the Nasal Pyra mid Sheehan s Netl d (Crugi plást a d la p ám len sal mét d de Sh h ) R med L : t 930 x 055

The author states that the article is based on a review of the literature and a careful study of the work of Sheehan and Gillies. He describes the anatomy of the nose in detail and discusses the origin of congenital and acquired hasal deformities.

Nasal deformaties are corrected by red etto retraction or replacement. Special emphas is placed on the importance of careful preparation of the patient regardless of the extensioners of the surgical intervention or whether the deform it is due to a defect of the brudge the septium the tip of the mose or the alze After it e applieat on of a viasoen strictor a complete intransast examination should be made. Roontgenographie examination of the paranasal sinuses and a Wassermann test are essential. Whenever an inflammatory process is p centil neither the nose or the hasal accessory sinuses sur goeal intervention; contra indicated.

The steps of the different operations are described and profusely distrated v the drivenings and photographs. The author believes it important to inform the patient before the operation regarding the ordens and discoloration of the eyelids which will be produced by the operative trauma and will last from one to two neeks. When this redema is excessive it can be controlled by the application of bit compresses of a solution of 5 per cent majane and sulphate and the administration of 15 drops discolorable of into every two hours for several days after the operation. Iron sulphate may also be used in the form of compresses. O ly applications will prevent the formation of crusts. A fresh solution of 5 per cent argy for should be applied every

th ee hours

The author describes the operative technique for the correction of an e aggerated conveuty deviat on of the nose depression of the nast bridge deformity of the tip of the nose and deforming of the tip of the nose and deforming of the tip of the nose and deforming of the described ture is high the use to correct enlargement the nose due to excess cartiligation and the form in so operation under of addressing the form in the fold of operation to the nose of the tip of the described to the nose of the nose

P R CASELLAS M D

Lewis E R An Analysis of 100 Consecutive Nasal Stnus Cases Treated Conservatively Laryngo scope 1930 xl 8 2

In 11 per cent of 100 cases of disease of the nasal sinuses the disturbances were hmited to the res piratory tract whereas in 62 per cent they were evidently a local manifestation of a general patho

logical condition Conservative treatment of nasal sinus disease includes surgical measures such as resection the removal of adhesions incision of the antrum of bulle and of the sphenoid the removal of polyps tonsillectomy and adenoidectomy. Non surgical measures include suitable exercises regulation of the diet the forcing of fluids alkalinization iodin ization the administration of salicylates physic therapy and local treatment by tamponade author has obtained better results from con servative procedures than from radical treatment

GLORGL R MCAULIFF M D

Eggston A A The Pathology of Chronic Sinustils Arch Otolaryngol 1930 XII 56r

The blood supply of the nasal mucosa is particu larly abundant and peculiarly sensitive to extrinsic and intrinsic changes Pathological changes in the contiguous soft and bony tissues are secondary to

vascular changes

The chronic hypertrophic type of sinusitis is characterized by thickening and cedema of the mucosa and periosteum polypoid masses of soft tissue and osteoporosis of bone The chronic atrophic type is characterized by an increase in the fibrous tissue with thickening of the periosteum and condensing osteitis A third type of chronic sinus itis the result of a combination of the hypertrophic and atrophic types is characterized by rugæ and sulci and a papillated membrane

GEORGE R MCAULIFF M D

Brown R G The Surgicopathological Interpreta tion of the \ Ray Appearances of Antral (Highmore) Diseases J College Surg 1 istralasia 1030 111 151

The author urges co operation between the surgeon and the roentgenologist in the diagnosis of patho logical conditions of the antrum of Highmore Accuracy in diagnosis is increased by attention to the position in which the roenteen exposures are made stereoscopic views a comparison of both antra and consideration of the roentgen ray find ings in relation to the findings of physical examina

The roentgen plates will show alterations in the hony walls resulting from malignancy trauma from foreign bodies erosion by dental cy ts osteitis osteomata and previous operations Changes in the contents of the antra are found in cases of acute and chronic inflammatory conditions cysts hydrops calculi and cholesteatomata and other tumors GEORGE R McAULIFF M D

#### MOUTH

De Melio C A Method of Operation for Perfora tions of the Hard Palate and for Cleft Palate (Line Operationsmethode der Pe forationen des harten Gaumens bzw der Gaumenspalten) Passow Schaefers Be tr 1930 xxv11 120

For the closure of palatal clefts or of perforations of the hard palate the following modification of the old Langenbeck operation is recommended

I A crescentic incision down to the bone is made close to the alveolar border from the lateral incisor on one side around to the same point on the other side The mucosa and periosteum are then loosened posteriorly for a distance of 1 cm. The pocket thus formed is tamponed with iodoform gauze and the tampon is changed every second day

2 Six days later the horders of the cleft or per foration as the case may be are freshened and the ends of the crescentic incision are prolonged to the hamulus pterygoideus keeping close to the alveolar border The mucoperiosteal flap thus outlined is then loosened inward to the freshened edge of the perforation or cleft so that the entire buccal cover

ing of the hard palate is mobilized

3 The tongue shaped flap which has been formed is allowed to fall backward and is sutured to the freshened edges of the defect with catgut from above (i e the needle is introduced from the nasal surface) so that only the periosteum and a part of the nasal mucosa are pierced. The catgut should not come into contact with the huccal surface of the mucosa

4 Incisions to decrease tension are frequently made in the nasal surface of the flap They do not penetrate entirely through the flap to the huccal surface After compression by gauze for a time the tongue shaped flap lies easily on the surface of the bard palate. In adults it is usually unnecessary to suture the flap to the edge of the mucosa along the alveolar border

In the nine cases operated upon in this manner up to the present time the results have been satisfactory

LAERCER (Z)

#### NECK

Thurmon F M and Thompson W O A Low Basal Metabolism Without Myxcedema Arch Int 1fed 1930 xlv1 879

Frequent observations were made on 196 patients with a basal metabolism of from 11 to 45 per cent below the average normal (in only 8 was it lower than -- 25 per cent) but no cedema could be de

At least 11 patients could be considered normal (with basil metabolic rates varying from -ir to -24 per cent) but it was often difficult to decide whether a patient was normal or abnormal

In 13 there appeared to be underfunction of the thyroid which apparently was too mild to result in myxodema (so called hypothyroidism without myvordema )

# SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS CRANIAL NERVES

Forbus W. D. Onth Origin of Millary Angul ms of the Superficial Cereb al Arteri's B. H. J. I. H. pk. H. p. B. h. 930 al n. 30

This article is limited to a discussion of the socalled congenital or multiple miliary aneurisms of the superficial arteries of medium size at the base and in the sulci of the brain

The author reports the case of a negro is east, lowyears of age who died on the day of onset of an acute illness associated with loss of consciousness and refer etion of the head. Acutopsy disclosed as substrachhoid and an intriventircular harmorth se due to the inpiture of a small aneurism. In ad histon four small unruptived aneuri ms were found. Will of the aneurisms occurred in vessels belonging to the carotid system. On histological examination the aneurisms as were found to consist of a thickneid insulars they showed no elastic or muscular layers. The d entitin varied in thickness and in places showed hyali e characteristics. There is no evidence of acute or chronic inflammation. The aneurisms—er all located at points of bifurcation.

A study of other ve sels in the same system which were free from ancursims revealed a peculi r defect in the miscularis at the apen of each angle formed by d vis on of the vessel. No similar defects ver found at points other than these bifurcts in sor in essels belonging to ther systems. No inflamma torve changes are e ident in association vith the defects. The locations of the defects corresponded to those of the ancu isms.

Of a series of se enty other autorsies in vlich the cerebral vessels ere examined aneuri ms of these vessels e c found in twelve Of them, fi e cases vithout ancu isms which were chosen at run dom thenty five should a medial defect at the lifurcat n of the vessels e ammed. In some of these s milar defects vere found Iso at the be furcation of essels of the coronary and mesentence arteries. Whene er such defects i ere discovered in the latter 1 c t ns they vere als ays found also in the brain but defects in the brain were often unassociated ith lefects in the coronary or mes enteric arteries. The defects occurred with equal frequency at all ages They did not appear to be associated with inflammatory lesions although cases with meningeal inflammation which were selected for study also showed the defects

Having consinced himself that the defects are not due to inflammation degeneration or attens sclerosis rd ha ing proved their congenital character by demonstrating them in a stillhorn child

the author set about to study the mode of their development. In studies of the development of the aorta and its branches in the embryo he found that the musculars is formed by a condensation of mesenchymal cells which happen to be present around the aorta and later of similar quite in dependent cells located around the given branch III be deves that the independent origin of his layer for the main vessel and its branches may account for the defects and that the defects and as areas of diminished resistance in the vessel where the formation of anothers is a few and in the defects of the main vessel and its branches may account or the defects and that the defects and that the offers are as a seas of diminished resistance in the vessel where the formation of anothers is a few and in the defects and as a reas of diminished resistance in the vessel where the formation of anothers is a few and in the contract of the defects and the same of the defects and the defects and as a reas of diminished resistance in the vessel where the formation of anothers is a few and the defects are a season of the defects are as a reas of diminished resistance in the vessel where the formation of anothers is a few and the defects are a season of the defects are a seas

In experiments carried out with systems of glass tubing in V hich the pressure of a stream of fluid was measured at different points it was found that the maximum pressure in the vessel vall under normal conditions of circulation corresponds to the usual sites of defects in the muscularis. It therefore appears that the hammering of the blood squasit these points of low red resistance ventually brings about a gradual wearing away of the internal elastic layer which results in outpocketing of the vessel wall.

Coursill C B and Adel tein L J Intracrunial C. leification with Particular Reference to That Occurring in the Cli mata i k S g

This report is based on ten cases of erfed and two cases of un enfield primary brain tumor. In five of the verifei and in both of the unvented tumors, the calcifeation was demonstrated by roentgen evam ant on In the five other it as found on histol gical examination. In five of the cases of eribed tumor the neoplasm was a spongio blastoma multifrime. In the of the ethe deposits were seen in the roenternoram.

The authors discuss the appearance of calcification in the eran al crists under phis ological and pathological conditions. Leo W Daymorr M D

D Mart 1 T Po toperative Accidents in Gerebral Surgery (L s c de t p t opé at s n h u g c eb le) Per & A I r 193 1 1440

The author takes e ception to the statement of liarr and I ontaine that there are several post operative neurological sindrom. He believes there is only one. The clin call symptoms are lever coma and hypertension [ the cerebrospinal fluid. The temperature rese very rapidly in a few hours and in faital cases the pitent des in coma. This syndrome is due to obstruction of the flow of fluid by pressure a birch causes injury of the centers on the loops of the third and fourth ventr cles.

A patient in coma vith a high fever and begin ning respiratory disturbances may be r stored ery quickly by an intravenous injection of a hyper tonic solution of magnesium sulphate This empties the ventricles by osmosis and decreases the volume of the brain The hypertension may be caused either by hypersecretion or by defective absorption of the spinal fluid. The fever may be treated directly by the application of wet packs or irrigation of the intestine with cold water. The hypertension may be treated by lumbar puncture or better by atlanto occipital puncture. If it persists in spite of this treatment a ventricular puncture must he done Ventricular and lumbar puncture should he ac companied by the intravenous injection of a hyper tonic magnesium sulphate solution This solution should be used with caution and injected slowly The patient should be put in the Trendelenburg position so that the cerebellum will be freed from the occipital foramen if it has become engaged in the latter When the blood pressure is low the prog nosis is poor. In cases with a low blood pressure injections of adrenalin and hypophysin are indicated The author gives such injections prophylactically from the beginning

Patents must be watched very carefully after brain operations. The rectal temperature should be taken every hour and if it rises treatment should be begun at once. The patent should have nurses especially trained in neurosurgical nursing hecause nurses accustomed to general surgical nursing will almost invariably relax their attention as soon as the patient seems to be doing well and this is dan gerous in neurosurgical cases. The author has a special room for his brain surgery cases with specially trained nurses and even thing ready for lumbar and ventricular punctures and intravenous injections. Audience of Mondam M.D.

#### Prion L Classification of the Optic Atrophies Proc Roy Soc Med Lond 1930 xxiv 25

According to Paton primary atroph, of the optic nerve is caused by a toxin or trauma acting directly on the fiber and killing it. Secondary optic atrophy is that form in which the death of the oerve fibers is the result of inflammation or degeneration of other structures on which the nerve is dependent or which from their anatomical relationships to the nerve can produce injury to its fibers. In contrast the text books define primary optic atrophy as atrophy in which the optic disk shows no evidence of antecedent papillitis or defens and secondary or consecutive atrophy as atrophy in which the optic disk shows evidence of an antecedent defens or papillitis.

Paton classifies optic atrophies as (1) those of localized origin (2) those of diffuse or indeterminate origin and (3) those of unknown origin. He subdivides the optic nerve into three portions (2) the papillary and (3) the retrobulbar. The retrobulbar portion he subdivides into (r) the orbital (2) the foraminal and (3) the intracranial According to this classification optic atrophy of localized origin is of three main types and the retrobulbar group has three subdivisions.

Each of the main types of atrophy may be the after effect of acute or chronic inflammations or of degeneration. The degeneration may be produced locally by pressure or traction or may be a systemic degeneration of unknown origin or consequent on vascular insufficiency.

The three main types of optic atrophy are discussed In atrophy resulting from retinal degenera tion the disk usually presents a clear outline and a ways surface. The most important feature is the extreme diminution in the caliber of the vessels. Of this type are the primary atrophies associated with retinitis pigmentosa amaurotic family idico; and cerebromacular degeneration and the numerous forms of secondary retinal atrophy consequent on retinal and choroidoretinal inflammation and vas cular degenerations. These may affect either the peripheral or the central portions of the retina or hoth simultaneously

In the pupillary atrophies the initial damage to the nerve fibers takes place at the disk itself of this type are the atrophies due to glaucoma papil litis, and papillodema and a rarer group in which a cavernous degeoeration in the disk itssues occurs in high myopes Atrophy resulting from traumatic avull on of the optic oreveals belongs in this group

Atrophies due to retrobulbar lesions form the largest group and may be classed as orbital foraminal or intracramal. The author refers to inflammation of any portion of the optic nerve as being interstitial or parenchymatous. One of the most common forms of parenchymatous inflammation is disseminated sclerosis. Other causes of atrophy due to retrobulbar lesions are postinfluenzal myelitis syphilitic myelitis. Malta and blackwater fever postherpetic neuritis and postvaricellar neuritis.

Intraneural or extraneural tumors acting on the orbital portion of the optic nerve may cause optic atrophy. A gumma at the apex of the orbit may cause pressure on the nerve

The most frequent cause of foraminal lessons giving rise to optic atrophy is trauma. Optic atrophy occurring in oxycephalv may be the result of the narrowing of the optic foramen or may develop coincidentally with the skull deformity as the result of early meningits. Bony thickening in Paget's disease may cause optic atrophy hy reducing the caliber of the optic foramen.

The main intracranial form of atrophy is the pressure atrophy caused by growths especially in the pituitary and suprapituitary regions or on the base of the frontal lobe or the anterior end of the temporrosphenoidal lobe. Atrophy may be caused by disseminated sclerosis meningitis basal aneurism or sclerotic changes in the internal carotids acting on the intracranial portion of the optic nerve.

Optic atrophy may be caused also by substances with a general toric effect such as tobacco arsenic lead methyl nlcohol carboo bisulphide quinine and aspidium filty mas. Of this type are the optic atrophies which occur in association with other systemic degenerations in the central nervous system.

such as Friedreich's disca e peroneal atrophy and hereditary eerebellar atrophy

Tabes causes optic atrophy of two types. In one the parenchymatous degeneration is predom mant whereas in the other the intestitual profit eration is more obvious.

The primary divisions of the author's elassification are based on the site of attack of the primary lesions and are subdivided on the basis of the nature of the lesion

R BT TZOLLI GT MD

#### PERIPHERAL NERVES

Lonjon P. A Contribution to it e Study of Ascending Iosttraumatic \(^1\) writi of the Extremit's (C at \(^1\) t a \(^1\) t l tu \(^1\) t l tu \(^1\) t a \(^1\) t o \(^1\) t m t qu \(^1\) d memb \(^1\) Th's \(^1\) I \(^1\) t gell \(^1\) g \(^1\) T \(^1\)

Uthough the clinical justine of ascen ling neuritis is at describe the Hunter in 15g is non-nell kno in the pathologi al anatom of the condition is still ob cure and our conceptions of its pathogenes so not completely satisfactory. The rainty of neuritis as compired ith supportions the de elopment of ascending neuritis following traumata not causing an open les in and the results of experimental investigations indicate that the condition is not due to common bacteria. The theory that the simple their is a causifactor does not explain the findings and that an uncertain bissis pain. However, the seems to have been definitely proved that tectain viruses a e able to use the nervou pathways to assend to the principal certers.

The author suggests it is possibility of a relation ship between ascenting neuritis and tetanus. In both conditions the portal of entry of the infect in is a traumatic to on an 1 the mode of extension along the nerve piths and the pinare similar. Vireo er the le on in ascending neuritis errespond to those found in the medullain it et in s.

Up to the present time exp r mentation has not furnished the autlor—ith positive arguments but she rep rt tw cases—heli are of interest from the

point of vie of her th ory

In the first case a ound of the left index fager was foll d by nat ful er ses and paroxismal spa ms Anti tetanus serotherapy resulted in cure In discussi g thi ca e lonjon tates that we may suppose v th Coloribino th t being obstructed in its progress toy d the upper nerve centers by a previous it ventive inoculation the to in became localized in the ter phiral nervous system a here the slo ness f t aetion produced a de per involve ment of the ne than would have been the case if it hal been a mer vector as in general ed tetanus With regard to the curative action of the sero therapy sle ite th work of Billard hich showed that neurotror c ubstances may oppo c the f vation of neurotovin on the neura is Il erefore to e plain the development of the scending neuritis in the case reported it is neces ary to admit the presence of an unknown neu ot opic virus at the site of the trauma

In the second case report I a cending neurits vinch follow d a puncture of the left thumb and resulted in general zel tetanus was cured by a rotherapy. In discussing this case the author 5 is that it is necessary to assume either weakness of the to n or resistance of the subject who showed hypercholesternarmia.

Lonjon concludes that in some cases ascending neuritis may be the expressi n ol a litent form of tetanus and that serotherapy should be tried before surgery as it may be effective by everying a specific action or causing non specific immunication

INDRÉ GUIBAL

keschnr M a d Berm n W Tady o Late Ufnr No iris Md J & Rc 93 crez 480

keschner and Berman r vies the literature on late inflammation of the ulnar nerve and report a case in hich the cond ton de eloped thrits vears after a fracture at the elb n. This tipe of neuritis seldom affects other nerves. Its chief cause appears to be frequent trauma to the ul ar nerve in the vicinity of the elbos, joint. In none of the easier reported in the literature was the site of trauma at any considerable distance for miths joint.

Signs of ulnar neuriti appearing a number of sears after an injury of the elbo especiall in the presence of def rmits at the elbo e tablish the diagnosis immediately. The motor f bers appear to be much more vulnerable to this type of int ry than the sensors fibers and in the presence of marked interes eous and hypothenar atrophy there may be only slight interfere ce ith sensory function in the ulnar areas largethesias are frequently the fi st symptoms of the neuritis 1 th chened tender nerve is often palpable behind the inter al condile. In cases vitl advanced muscular wasting the vasti & may be mistaken for progressive muscular atrophy but the absence of fibrillatio s and the presence of sensors signs sill usualls el minate the latter. In early cases roentgenography may be necessary to

exclude cervical nb. Surgical intervention is the only sait factor, treatment. He ence should be freed from constructing bands and all mass es causing pressure upon it should be moved. When the continuous tile decet is suit of cultivity valgus d formit; it has no ingo I the ultipar can I the surgical procedure must be dire ted to the osseous structures. In ceta n cas a anterior tran position of the ultipar can I to a position in front of the me han expendite is the operation of choice. In gineral good results may be expected from peration if the neutrus has not prog e sed too fa and elect teal stim lation doesn't show a reaction of complete degreer time.

POBLET TO THE ALD

Exams W I thank all Epidural Injection in the Tree transfer feet tica L ct 93 1 5

The author divide e ses of scritica according to the usual classif eati minto to o types thore of symptomatic scratica in which involvement of the scratic nerves or their roots by neoplasms in the pelvis or disease of the hip sacro that joint or lumbosacral vertebræ can be demonstrated and those of idiopathic sciatica in which no cause can be found

This article is based on forty cases of idopathic sciatica which were treated by intrascral epidural injections. All of the patients gave a history of acute onset of the condition with the recognized symptoms. The duration of the symptoms before the patients were seen by the author ranged from five days to eighteen months. The treatments which had been tried included internal medication the external application of counter irritants massage ionization electrical therapy, hot haths stretching of the nerve under general ancesthesia injections of oxygen or saline solution along the course of the nerve and spiniting of the affected limb.

The author describes the technique of the epidural impections. In the forty cases reviewed forty seven injections were made. From 60 to 145 c cm of a 1 or 2 per cent solution of novocain salaine solution were a combination of novocain and saline solution were

used

Sixty one per cent of the patients obtained immediate and permanent relief 13 oper cent were hene fitted permanently 19 4 per cent were benefited temporarily and 5 6 per cent were not benefited

The results did not seem to depend on the quantity of fluid used within the limits stated nor upon

the character of the fluid

By measurement of the intrathecal pressure with a spinal manometer at the time of injection and by experiments on cadavers the author found that the injected mass displaces the dura upward and for ward thereby stretching the intrasacral roots

LEO M DAVIDOFF M D

#### SYMPATHETIC NERVES

Morton J J and Scott W J M Studies of the Activity of the Lumbar Sympathetic Nervous System Ann Surg 1930 xcii 9 9

As spinal an exthesia chemically blocks off all central impulses including those which are autonomic the authors carried out investigations to determine whether it might not be of value in showing the benefit to be expected from operative interruption of these impulses in pathological conditions

In several cases of Hirschsprung's disease the previously atomic intestine exhibited excellent expulsive power with peristaltic rushes after the induction of spinal amesthesia. Similar results were noted also

in experiments on cats

In studies of vasspasm in the extremities it was found that spinal anesthesia is usually followed by a sharp rise in the surface temperature of the feet. The occurrence of only a slight clevation is an indication that the vassodilatation is already at its maximum or that no sympathetic vassoonstrution is present at the time of the examination. Fatients suffering from an organic vascular disease associated with vassopasm such as thrombo anguities obliterais.

show a moderate to marked rise in surface tempera ture following spinal anæsthesia

Spinal anæsthesia proved to be of great value al o in the differentiation of true pain of sympathetic

origin from psychoneurosis

So far no specific functional tests have been devised for trophic ulcerations traumatic arthriti and ordema non specific poli-arthritis or states of nervous origin such as poliomyehts. Vasoconstriction has been demonstrated in these conditions but its significance is not known.

The authors review all o several cases of spina bifida with sensory impairment in the lower extremities. In one of them lumbar sympathectoms was done as treatment for atrophic ulceration and in the other as a prophylactic measure against

trophic ulcerations

From their findings the authors conclude that he man of spinal anasthesia it is possible to study the large bowel and the peripheral vascular system of the lower extremities freed from sympathetic activity and thereby to determine whether operative interruption of the sympathetic nerves will be beneficial in pathological conditions of these parts. ROBERT COLLINGER WID

Weigner K The Anatomical Fundamentals of Surgery of the Sympathetic System (Anatomiche Grundlagen der Sympathieusehirurgie) Ro hl Chir a Gyn ek 1930 ix 66

The author first attempts to give a bistorical account of the development of our knowledge of the sympathetic and parasympathetic systems then states that the sympathetic nerves do not differ essentially from the cerebrospinal nerves. Absence of the medullary sheath is not characteristic nor is it possible to distinguish macroscopically whether the fibers are afferent or efferent. Furthermore pathological changes in the sympathetic nervous system bave not been investigated systematically up to the present time Only from the reaction to different chemical substances such as micotine or adrenalin is it possible to determine whether a viscus is innervated by sympathetic or parasympathetic nerves This cannot be demonstrated anatomically as vet The author then discusses the properties of the nerve fibers the nature of their network and the sympathetic ganglia

With regard to ramicotomy the author states that the nerve fibers of the sympathetic system should be included with the rami communicantes as both afferent and efferent fibers are contained therein. After their entrance into the sympathetic trunk, the nerve fibers in the rami communicantes are both ascending and descending and descending and end in the sympathetic ganglia. How far they extend can be shown only by experiments namely division and secondary degeneration. This can be observed only in the nerve fibers with a myelin sheath the others apparently degenerate with great difficulty.

The blood vessel are innervated by both the cerebrospinal and the sympathetic nerves. The

such as Fr edreich's disease peroncal atrophy and hereditary cerebellar atrophy

Tabes causes optic atrophy of two types. In one the parenchymatous degeneration is predom mant whereas in the other the interstitual proliferation is more obvious

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#### PERIPHERAL NERVES

Lonj n P A Contribution to the Study of As nd ing Posttruum tie Neuritis of tie E ten iti is (C nt i t å lit d d l né lea cenl te p t t matiq le memb Th's le li t p ll r 03 l med 1 93 x 3

Although the cl nic I picture of ascending neurits first des bed by Illunter in 130 is now ell kno in the pathol gizal anatomy of the condution is still obscure and our conceptions of its pathogenesis are not completely satisfactor. The ranty of neuritis as compared with supputations the development of ascending neurits follo ing traumata not causing an open lesion and the results of experimental investigations ind date that the condition is not due to common bacteria. The theory that the sympa and has an uncertain base pain. Ho e er is seems to have been definitely proved that certain viruses are able to use the nervous pathwass to ascend to the principal c.

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point fale of her theory

In the first case a vound of the left index finger was foll ed by painful crises and paroxysmal spasms Anti t tanus ser therary resulted in cure In discus ng this case L njon states that we may suppose with Colomb no that being obstructed in its progress towa d the upper nerve centers by a previous preventi e ino ulation the tox n lecame locali ed in the peripheral nervous system v here the slo ness of its action produced a deeper involve ment of the nerve tha vould have been the case if it had been a mere vector as n generali ed tetanus With regard t the cu tive action of the sero therapy slectes the work of Billard which shoved that neurotrop c ubstances may oppo e the f xation of neurotox as on the neura | Therefore to explain the development f the a cend ng neuritis in the case reported it is neces any to admit the presence of an unknown neur tropic virus at the site of the trauma

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Lonjon concludes that in some cases ascending neurits may be the cipression of a latent for if tetanus and that scrothe apy should be tried before surgery as it may be effective by everting a specific action or causing non-specific immunication.

1 Rf GCIBAL

Kesching M and B rman W Tardy Late
Ulna Neuriti Md J & Rc 03 C 75 480

Keschner and Berman rs, en the I terature of the inflammation of the ulmar nerve and report a case in which the condition developed thirty gear after a fracture at the elbo. The type of neuritis seldom affects other nerves. Its chief cause appear to be frequent trauma to the ulmar n re in the scinits of the elbo. Joint. In rone of the cases reported in the I terature is at he 3 to of trauma at

any considerable d stance from this joint Signs of ulnar neuritis appearing a number of sears after an injury of the elbo e peci lly in the presence of deformity at the elbow establish the diagnosis immediately. The motor fibers appear to be much more sulnerable to the type of injury than the sensors fbers and in the presence of marked interesseous and hypothenar atrophy there may be only slight interference with sensory function in the ulnar areas I arestlesias are freque tly the first symptoms of the neuritis 1 thickened tender nerve is often p lpable behind the internal condule. In eases ith advanced muscular ast ng the wasting may be mistaken for progressive muscular atr ply but the absence of fibrillations and the presence of sensors signs will usually eliminate the latter. In early cases roentgenography may be necessary to exclude cervical rib

Surgical intervention is the only sat factory treatment. The nerve should be freed from c a stricting bands and all masses causing pressure upon it she till be removed. When the condition the direct result of cubitus algus defo m ty ith narrowing of the ulbar canal the surgical pocedure must be directed to the osseous structures. In certain case a naterior tran position of the ulbar canal to a position in front of the medit in epic of deless the opiration of close. In gineral good res lism y be expected from operation if the neutrin has not progressed too far an ielectrical stimulation does not a solution of complete degeneration.

LOB RT ZOLL NGER M D

E an W I it neral Epidur l Injecti n in the Γ atm nt f Sciatic L / 93 ° 5

The author div des cases of scritica according to the usual classif cation into tv o type—tho e of symp tomatic scrit ca\_in—hich involvement of the sc\_atic is completely or partially established pain while the subject is at rest may cease and pain on active motion may be alleviated wholly or in part

Failure of the operation has been most apparent in joints particularly in painful bips which still were movable but in which there were marked caseous changes

For the present at least the authors advocate the operation for the type of arthritis described namely periarticular arthritis with evidences of neurocirculatory phenomena which reacts to the administration of typhoid vaccine with a high vascular index. In some cases of this type the results as far as the hands and feet are concerned seem gratifying

#### MISCELLANEOUS

Teissier P and Chavany J A The Treatment of Cerebrospinal Meningitis (Cons derations su le traitement actuel de la méningite cérébrospinale) Presse med Par 1030 xxxviii 13 1

Failure of treatment of cerebrospinal meningitis is frequent. The usual treatment is the injection of polyvalent or monovalent anti-meningococcus serum by lumbar puncture as often as indicated by clinical examination and study of the spinal fluid

Among the factors which are believed to con tribute to failure are youth of the patient (newborn infants are most susceptible to meningeal infection) virulence of the organism (the B variety is resistant to serotherapy) secondary infection of the spinal fluid by streptococci or pneumococci the formation of adhesions and recurrence induced by meningo cocci which have found lodgement in the rhino pharyny internal ear or near the meninges

The authors report their experience in ten cases of cerebrospinal meningitis in which complete recovery resulted and describe their technique for lumbar suboccipital and ventricular puncture. In four of the cases reported the treatment consisted solely of serotherapy in two of serotherapy combined with protein therapy in one of spinal and intravenous injections of gonacrine and in three of a combina tion of all of these methods

The authors emphasize the necessity for repeated puncture of the spinal canal at various levels and the substitution of another method of treatment for the method used first if the latter does not give satisfactory results JACOB E KLEIN M D

# SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Orbich F Bie ding lipple (But nd Mam II ) 7 1 161 f Cl 93 p

The blee ing mpple differs chuically from the bleeding breast in that in the former the hamor rhage has its o gin not in the mammary gland tis sue but in the nipple itself. The author reports the case i a sixteen very old girl v ho found traces of blood on her clothing for a perio I of four weeks and in the ten days just before her entrance to the hos pital had three more severe bleedings. The last hemorrhage occurred fourteen h ura before her admutance to the hospital

The left mople was extrapated and the wound sutured. Healing to k place by first intention

Histological symmation discho ed an piece with hamorrhagic diphtheritic inflammation. The degenerative change vas limited to the nipple and as cause I by nutr tional listurbances to sign of tum r (f broms or angi mi) could be foun ! There y as n bl ody secret on of the numble the ham r rhage be ng caused by the erost a resulting in the troph c ulcer I GLASS (Z)

Mintz W Are We Ju tifi d in Ad i Ing Amputa tion in Cre of Ill eding Beat? (ant htatb blind Mimm 1 Dues 2 hi g n?) / 12 lbf f ()

The auth r states that as ea is as ross be recom mended adjust one att a for cases of bleed ne b east especially in the eases of nomen of cl mac te ic age. Ir in the large mate in which he has seen in the sul quent eighteen years he concludes that all bleeding b easts are organically diseased and that milignant deg neration may supervene a such b easts 1 any 1 me 1 paiprible 1 um r neef not nee su 1 be present ar mama may be found on c pic exam nation of bleeding beasts which shot no ma o copic changes. In the ase I a an thenth eight i are old tho was trent if by the author part al exc son was followed by vertebral metastasis a ve later although the microscome i ad ings in the spec men did not i veal malignaries

Livery case should be studied circlully to leter mine whether amputation should be d ne not In the cases of omen in the fifth decade of He the author has always ampotated None of the exam med specimens of blee ling brea twere lound normal

In the cases of women between t vents and there. years of age and those with bilater I involvement the question of mutilation makes the decision diff cult. Hot ever c astant re examinations are bur densome to the patient and may lead to depress on 1 PO ENBLR (Z)

Cleatle Sir L The Pimary Tumo in Breast Carein ma C d W f / 103

It is common to lescribe the carcinoma that can be felt in the breast as the primary growth and all epithelial cells that have reached lymphatic glands and tissue elsewhere as secon irry deposits. How ever the primary tumor occurs in the ducts and acing and the cells in the connective tissue of the breast are in secon lary deposits which often make it impos ible to letect the site of the primary gr with

The grading of carcinomata should be based on the structure nature and characteristics of the primary tumor Criding is impossible when the I sea e is at all advanced because the primary site becomes lost in the growth of the lesion and hen on e the cells have invaded they I se their shape WILLIAM I ST CALETON M.D.

#### TRACHEA LUNGS AND PLEURA

Brunn II and Bill S Observati as on Po t operathe lulmonan Atelecta is 1 S # 93

The me t important single cau e of postope at ve pulmonary atelectas s is bronchial obstruction Chief among other caus s are paralys of the disphragm and anability of the respiratory muscles to functi a prope li

The treatment is both prophylactic and active Prophylactic treatment includes intrabronchial dramage by posture carbon horide inhalation and bronchoscopic aspiration. Letive treatment consists in the removal of bronchial pus. This is lest lone through the br nehoscope The prognosi is good except in cases with complications

The authors do not believe that all postoperative pulm nare complication except the emb lie types are of the ame nature They report a case in thich the chuscal r entgen ray and bronchoscopic find ings shoved the con lition to resemble lobar pn u I ICL II G EELEY MD n na

Amber on J B Jr The Indicati n f and the Result of Artificial I neum thorax in Pul montry Tube culosis | It if d 93 b 343

Alexander J Pl nic et my and Inte co tal Y u ect my for Pulmonary Tuberculost Broug P k Hor c pla ty in the Treatment of

Pulm mars Tuber ulosis 1 11 1f d 103

W bb G B Cene at C ideration of the Rôle
of S rees in P in nary Tub 1 is in
1 1 U 1 93 37

IMBERSON reviews \$ 156 cases in a high pulmonary tuberculo was treated by artificial pneumothorax and re expansion of the lung had occurred an aver age of five years before the follow up study. In 80 cases healing was good and the cavities were per manently closed. Seventy eight (87 per cent) of the patients with good healing were still hiving and 50 were able to work and lead normal hives. In 76 cases healing was incomplete and the cavities were not entirely closed on re expansion. Only 35 (41 per cent) of the patients, with incomplete healing were still living and only 36 (4 of whom had later surgical treatment) were able to hive normally

These findings bear out the general belief that when pneumothorax collapses the lung adequately and is continued long enough it restores a majority of the patients who otherwise would be destined for an early death or at best permanent disability. The necessary duration of the artificial pneumothorax has been a difficult problem. The total duration of the treatment is not so important as the duration of the treatment after the cavity has become closed and the sputum negative Depending upon a num ber of variables Amberson's patients did well after re expansion if the lung had been satisfactorily col lapsed and the cavities kept closed for from one and a balf to two years As it often took months to close the cavities the average total length of the treatment in cases with successful results varied from two to three years

ALEXANDER states that an increasing number of surgeons prefer diaphragmatic paralysis to pneumo thorax especially for unilateral lesions in which the cavities are such that phrenicectomy can be expected to close them He believes there are fewer complications after phrenicectomy expertly per formed than after pneumothorax Another ad vantage of phrenicectomy is that a single procedure replaces the numerous injections required for pneu motherax Phrenicectomy does not prevent a later pneumothorax Temporary diaphragmatic paralysis can be obtained by crushing the phrenic nerve in stead of evulsing it Alexander does not think that bilateral phrenicectomy has yet been proved safe He therefore performs phrenicectomy only on the side which on account of adhesions is unable to accept pneumothorax Bilateral cases may be treat ed by temporary interruption of the phrenic nerve first on one side and then on the other Temporary interruption of the phrenic nerve is of value also in cases of hæmoptysis Diaphragmatic paralysis does not activate tuberculous lesions in the contralateral or 3 cm of lung Alexander prefers resection of the main phrenic nerve and of the accessory phrenic nerves to everesis

Lateral roentgenograms reveal the height of the paralyzed draphragm better than the usual antero posterior views

From his experience in 6 clinical cases and his experimental work on dogs. Alexander concludes that intercostal neurectomy may prove of more value than extrapleural thoracoplasts.

Brown states that while large cavities may close entirely as the result of postural rest pneumothorax phrentectomy or intrapleural pneumolysis (Jacobeus) thoracoplasty should not be postponed too long in cases in which they fail to close under such treatment and in which there are constantly recurring harmorrhages. The deformity from complete unilateral thoracoplasty is mether an assistent nor an economic handicap. Alexander says that it should not be considered in a discussion of the relative ments of thoracoplasty and multiple intercostal neurectomy for when thoracoplasty is performed properly, it is very slight.

Wede states that for sixteen years he has advocated postural rest for unilateral lesions and the application of shot bags for bilateral lesions and he still believes this treatment should be tried first for

from six months to a year

His second choice of treatment is artificial pneu mothorax but the results of this procedure are satisfactory in only a third of the cases. The pneumo thorax must be maintained for at least three years Thoracoplasty should be restricted to carefully se lected cases Webb emphasizes the importance of prolonged postoperative medical care. In his experience surgery does not markedly shorten the period of time that careful medical care is required Whatever the operative procedure employed med ical supervision must be continued for from three to five years. It must be borne in mind that tubercu losis tends to recur and regardless of the method adopted to place the diseased lung at rest per manent cure cannot be greatly accelerated several vears being necessary to build up resistance

RALPH B BETTMAN M D

Bonafe L and Mollard H The Digestive Dis turbances Associated with Pneumothorax (Le t oubles di estifs au cours du pneumothorax artifi ciel) P sse méd Par 1930 vxvvii 1277

Of roo patients treated by artificial pneumo thorax 35 lost weight during the three months fol lowing the insufflation without the development of new pulmonary or pleural lesions to account for the loss. Of these 35 patients 5 developed ententies 9 suffered from mild gastric or intestinal disturbances and the others showed simply a transient state of malnutrition.

In the syndrome presented by the first group a syndrome described by Dumarest and Brette "the appetite is good but after a small amount of food is eaten there is reseastion of fullness the stomach seems quickly filled 'This is the most common and the least serious symptom. To the sensation of full ness may be added abdominal distention which is most marked in the epigastrum. Gurgling is often noted and there may be pun of varying degree of severity in the left thy pochondrium. These di comforts are aggravated by the recumbent position and after eating the patients are more comfortable when they walk about. At another stage vomiting may occur after eating either immediately or after some delay.

The cause of these phenomena may be a reflex dependent upon the common innervation of the tumors were primity in the thorax and mediastinum in two they ere metastrice earnomatics and of unusual interest from the diagnostic standpoint because before operation they could not be distinguished from primary thorace tumors. Harring too be felly summarizes the symptoms methods of diagnosis surgical treatment and results to date in the entire series of it enty four eases.

The symptoms and signs of thoracic growth depend upon the size and situation of the tumor in the thorax I am is the most common symptom and is usually the chief complaint for which the patient seeks relief. Horner's syndrome was present in three of Harrington's cases in which a mangnant tumor as found at the aper of the thoracic cavity The symptoms in malignant conditions often simulate pleurisy. Dyspinga is more marked in cases of anterior mediastinal tumor than in cases of tumor of the posterior or lateral portions of the thorax Cough is more marked in cases of tumor of the anterior me liastinum and cases of malignant tumor invol ing the lung Vascular changes are not common they are usually seen only in lesions of the upper part f the thorax and the anters r mediastinum

The general examination is of the greatest im portance in determining the condition of the nation and is all ays the deciding factor in dete ming the type of treatment to be instituted. Roentgen examination is the most important single method of diagnosing the presence of an intrathoracic tum r and of distinguishing bet een a m lignant a d a benign lesion. I luoroscopic examination is of gre t value in determining the site of the tumor and its relation to the normal structures within the thorax Bronchoscome examination is of great aid in the differential diagnosis particularly in ruling out primary intrabronchial disease and mal gnancy. In jection of the bronchial tree with rod zed poppy seed oil may be of aid in d stinguishing bet en intr pulmonary and extrapulmon ry lesions In selected cases th racoscopic examination may be of aid in determining the type and position of the tumor but in most instances Harrington prefers to do an e plorators thoracotoms

The surgical in lications depend on the ob ertations in the particular case and there is no other condition in which the result depends so much on the stretest attention to detail in each step of the treatment. I ostoperative care is very important

# SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Gibson C I and Felter R K End Results of Inguinal Hernia Operations Inn Sug 1930 XCII 7AA

Operations for inguinal hernia are generally satis factory as regards cure safety and relative freedom from complications The mortality would be negli gible but for the occurrence of pulmonary embolism

a still unsolved problem

Practically all young and healthy persons with herma should be operated upon However in the cases of very young children operation can usually be delayed as the danger of accidents is slight. In the cases of persons past hfty years of age-those in which the mortality and the incidence of failure to cure are highest-operation should usually be done only when there is a definite indication for it such as marked discomfort disability or strangulation

The chief single cause of failure of operation is the sac If the sac is easily identified and radically dealt with as in indirect hernia the results are good. In cases of direct hernia the sac is apt to be overlooked or improperly handled special forms of closure such as transplantation of the rectus are necessary and the patient is confined to bed for a longer time

The incidence of recurrence is highest in cases of bilateral hernia operated upon in a stage authors operate upon difficult and extensive bilateral hernix especially those of the direct type in 2 stages

When an insufficient operation has been done the failure becomes evident promptly 729 per cent of recurrences developing within nine months

Of 1 878 cases of hernia reviewed by the authors the Callie operation was done in only 2 The au thors doubt whether the operation is an improve ment over the method in current use

SAMUEL KAHN M D

Juvara E Transverse Incision of the Abdominal Wall the Sprengel Incision for Operations in the Hypochondrium (Lin i on tra er ale de la paro bdom le l'inc on de Sprengel pour le op atio s lan les hypochondres) B ll t tett rald chir 93 IV1

The procedures for cutting flaps in operations in the hypochondrium are numerous. They include the two Kehr inci ions and the Hartmann Beven Mayo Robson Rio Branco Grav Czernv and Desjarding incisions The author describes each of these incisions briefly. The simple inci ions are the median longitudinal and the lateral longitudinal incisions the oblique incision of Kocher the Koerte incision and the Kausch incision

The low transverse in ision of Sprengel is indisputably the most advantageous for all operations in the hypochondrium. The upper portion of the abdominal wall is a more or less acute angle framed by the costal margins The high Sprengel incision is made in the area of this angle and the low Sprengel incision at the lower level of the triangle tangent to the angle of the costal margin or even lower. The high Sprengel incision ha no advantage being too short and limited by the cartilaginous frame. In order that the low Sprengel incision may offer all of its advantages-light room reduction of the depth of the operative field and easy reconstruction of the abdominal wall-the operation must be performed on a modern table which permits rapid maneuvering of inclined planes in both directions

The author describes the low Sprengel incision and its suturing in detail. The incision is made easily and rapidly and is opened up by placing the patient in extension by changing the planes of the table It especially facilitates treatment of the pedicle of the spleen. The reconstruction of the abdominal wall is done conveniently by putting the patient in flexion. The extra minutes needed for the reconstruction of the abdominal wall are compensated for by the time gained in the operation There is no comparison between the easy and exact reconstruction after the low Sprengel incision and the laborious and less exact reconstruction after the various flap incisions. When drainage is necessary the drain may be placed with more ease in the trans verse incision than in the median incision. In the transverse incision its course is directed obliquely outward following the bed of the gall bladder The cutaneous scar which is not unsightly is well hidden in the folds of the skin. The cicatrix of the fibromuscular layers is always very solid. The author has never seen eventration even in cases with dramage or those in which weakness of the wall was caused by the resection of nerves. When the diagnosis is doubtful and when there is more than one lesion the transverse incision open at the hepato gastric quadrant is a direct and broad route which may be extended to bring into view the liver biliary ducts duodenum pylorus stomach spleen and appendix

Alvarez W C Mesenteric Lymphadenitis in Adults a Cause of Pseudo Appendicitis Indi 1 // 1 193 XIV 602

Every physician sees from day to day patients with abdominal pain and symptoms of indigestion so severe that he has little doubt of the presence of definite organic disease. The symptoms may suggest cholecustitis peptic ulcer or appendicitis but often the syndrome is atypical roentgenograms fail to show di ease and a satisfying diagno is cannot be

made Sometimes in the cases of children almost every symptom and sign points to the presence of acute appendicitis yet when the abdomen is opened the surgeon find no evidence of disease

There are reasons for believing that the intestinal mucosa is more permeable in childhood than in adult life. For many years mesenteric lymph adentis has been tell known to p diatricians who generally speak of it as tabes meenterica or

tabes mesaraica. A number of recent articles dealing with the s, indrome as it appears in adults have led Mvarez to report eight cases coming und r

his or n observation

That mesentenc is imphadentis can result fatally was shown by the case of a woman seen by illeave years ago. In this case the main symptom was un controllable diarrhea. It autopsy the only abnormality found y as remarkable hypertrophy of all the

lymph nodes of the mesentery The suggestion has been made that the disease might be a mild form of Hodpkin's disease. Tharez thinks that it is not. He believes its most common cause is juvenile tuberculosis. It has been suggested al a that in some cases the infecting organism might be brucella abortus. Ware thinks that many of the strange disorders of digestion can be explained best on the basis of such a low grade infection and that one of the greatest needs of medicine is a means of raising the resistance of the body to such infections. He heleves that better re ults vould be achieved if the patients were treated exactly as if th infection was tuberculous Unfortunately this can rarely be done because per haps prolonged rest overleeding and heliotherary may not effe t a cure. In a number of the eases de or bed by Alvarez the patient recovered only after long continued treatment of the type used in sanatoria for tuberculosis

#### GASTRO INTESTINAL TRACT

Semb C. A ute Free Perforation of Gastric and Duodenal Ulcers ici hiru g S and 1930 km

The author's material consists of 166 cases of perforating gastric and duodenal ulcer operated upon in the urgical lepartments of the Lille al Hospital Oslo in the period between 1912 and 1920

Investigations regar ling the frequency and local ization of the ulcers and their distribution with respect to age and s s show that of late years there has been a considerable increase both abs lute and relative in the number of ju tapyloric ulcers in young men

The peri rating ule rs—e pecially the juxta pyloric—differ in many vays (apart f om the per foration itself) from ordinary chromic ul ers and to a certain extent must be regarded as a special form

In cases of perfor ting ulcer a marked increa e in princreatic diastase in theurine assometimes found. The treatment adopted in by far the greater number of cases was suture with gastro enterostoms. and flushing out of the abdomen throu is a criss cross mession in the right ibac fossa. Especially in ct es of juxtapyloric ulcers this treatment yielded excellent results.

I rimary gastro entero tomy is well tolerated. It does not seem to be associated with any great danger of spreading the infection, and it allords excellent

draininge of the stomach

Follow up records show that gastro enterestorny sields a larger percentage of cures in cases of p r forating offer than in cases of chroniculer

Willer T G Eliason E L and Wright \ W M Carcinomatous Degeneration of a Poly of the Stoma h a Report of El in Personal Cases, \ th a Re lew of Twenty Four Recorded by Others Arth I i M a 1934 1 841

In a series of 200 operations for cancer of the stomach the authors encountered 8 cases of care nomatous gastric polyp. In 4 cases the polyps were multiple. I revous studies of gastric polyps made by the authors indicated that the incidence of carcia must us chance in these norolastrics as to per cent

cutilitat as change in times incompanies 13.53 per common to all of the 8 cases of carci nomatous polyp was achievhydria. The signs and symptoms included engaster discomindro or pain to a of veight anoretia. Vomiting with sometimes the appearance of blood on the vomities nasical pallor the passage of blood by bonel dizzines and diarrif xx 1 of agnosis of polyp was made by the roenternology is in a cases and was given as an all safet displaces with gastine carcinoma in 3 essessible of the patients remained will a peri 3 essessible of the patients remained will a peri 3 essessible of the patients remained will a peri 3 essessible of the patients remained will a peri 3 essessible of the patients remained will a peri 3 essessible of the patients and and and and a period of the patients of the patients of the patients of the patients are respectively after of

The authors conclude that carcinoma of the stomach man arise on the basis of a benin polyp When this occurs the symptoms are those of any malignant gastne? I soon with the addition of intermittent psylone obstruction and hamorrhage

C D HAGE SEV M D

Boas 1 The Dietetle Treatment of Patients with Inoperabl Canteer of the Stomach (L br de dat set R handl ng 1 pe abler Mac teb k nk r) Il p d G g 1930 ix 193

Seventy per c at of all patients with gastric care noma are in peralli at the time they are referred for surgical treatment. Therefore it is necessity to regulate their diet toot so much for the prolong of the so for the control of pan and officer applies. With proper diet has obtained by the proper diet has administrated by the properties of such instances. The properties of the

In contrast to Van Voorden and Salomon who believe that the pat ent may eat 1 hatever he desires

provided it produces no discomfort the author advo cates a diet of liquids and gruels as be helieves this

will hest relieve the symptoms

Boas considers a liquid diet ideal for patients with cancer of the stomach It need not he poor in calories nor monotonous It should contain adequate vita mins The desire for solid food may he satisfied by the administration of all types of jellies-meat fish milk almond milk and fruit jellies and aspics. The diet of all patients with carcinoma should begin with this type of food Soon the pressure distress vomit ing and pain cease and the appetite improves Later gruels may he added but meats should be excluded as they often cause aversion and nausea and thereby jeopardize the assimilation of other foodstuffs Fish preparations may be permitted for variety. In some cases the chewing of meat may be allowed To this standard diet many substances may he added

All sharp foods should he forbidden such as bev erages with a high alcoholic content (cognac h queurs sherry port wine champagne) spicy sauces mustard horseradish onion garlic paprika and salt herring On the other hand lemon apple plum pineapple and melon juices compotes caudle and milk with the addition of vanilla or Brunswick mum are to he recommended Yogurt milk and other forms of sour milk provided they are not efferves cing (they are hest when two or three days old) may also be allowed

Patients with carcinoma require very much less narcotic if given food containing no spices A liquid and semi liquid diet need not become monotonous as the number of possible variations is very great

ERICH HEMPEL (Z)

kaufmann H Acute Intestinal Occlusion in the Course of Salpingitis (De l'occlusion intestinale aigue au cours des salp noites) Gynécologie 1930 TYIY GOS

Kaufmann reports a case in which a perisalpingeal peritonitis agglutinated the intestine creating an inflammatory block which threatened life While the lesion was essentially inflammatory its effect was mechanical In such cases the adnexitis must he overlooked and the ileus treated by enterostomy or entero anastomosis

Three types of intestinal occlusion may result from salpingitis the paralytic ileus of pelviperitoni tis the chronic ileus of pericolic stenoses and sub acute occlusion of which the author's case was an example

Salpingitis may result in the formation of peri toncal hands inflammatory adhesions and perivis ceral sclerosis The mechanism of the occlusion is less important than the infectious nature of the

agent causing it

It is not always the most chronic salpingeal lesions that cause the most dramatic intestinal occlusions In two instances cited the infection was practically silent and of short duration whereas in others there were very old pelvic inflammations and sclerosis due

to a process developing for years. Adnexal inflam mations seem to play a role also in the development of the ileus of pregnancy

Increased peristalsis is the sign of ileus which demands intervention The problem of diagnosis is to eliminate pelviperitoritis and prove the presence of occlusion The significance of distention of the abdomen increased peristalsis repeated comiting and absolute stoppage of gas must he properly inter preted Occlusive intoxication also causes general signs which are easily recognizable. In the case of a pregnant woman apyretic and mild mechanical ileus must be distinguished from the formidable septic ileus of pregnancy in which operation is performed with great difficulty and the results are disappoint

Surgery is indicated only when there is definite intestinal occlusion and at operation only the occlusion should be treated. The more threatening the salpingitis the less should be attempted with regard to it Even palpation should be avoided In a serious case treated by Schwarz simple laparotomy was successful Ahlation of the adnexa and hys terectomy are very difficult and dangerous operative procedures performed for ileus are enter ostomy entero anastomosis and the formation of an iliac anus

Kaufmann has collected from the literature the reports of nine cases of intestinal occlusion due to salpingitis in which there were six deaths and three recoveries

In conclusion the author bays that intoxication of the organism in intestinal occlusion should be combated by the intravenous injection of hypertonic salt solution PACE

Burget G E Martzloff K Suckow G and Thornton C B The Closed Intestinal Loop I The Relation of Intraloop (Jejunum) Pres sure to the Clinical Condition of the Animal A ch Surg 1930 XXI 820

The authors report experiments on dogs in which they used the closed intestinal loop method of Whipple to determine the relation of hydraulic pressure within infected hollow viscera to the clinical course presented The technique is shown in illustra tions

It was found that when the intestinal loop became distended the animals became less lively and lost their appetite If the pressure was relieved by tapping they became able to eat at once or within the next hour Hydrostatic pressure developed in practically all jejunal loops Relief of this pressure permitted normal recovery provided the circulation was not impaired Little or no vomiting occurred unless the loop was distended The decrease in the blood chlorides which is typical of clinical obstruction was not observed. The predominant hacteria found in the jejunal loops were the hacillus coli the bacıllus welchii enterococci and streptococci The hacillus coli seemed to disappear from the older loops M HERBERT BARKER M D

Schnitzler II The Clinical Picture and Pathogene is of Intestinal Tuberculo is and its Complications (Zu Kink u 1 Path gen der Darmtub rikulo und ihr r Komplikthon ) i / f kin Cl 930 cl 467

I noman thenty four years of age had suffered for years with attacks of intestinal cole line months before she was seen by the author a ruenteen examination of the intestinal tract disclosed a par roving and li tortion of the lumen of the excum-I we hours before admittance to the hospital the patient experienced a sudden attack of pain in the region of the excum her temperature rose to 38 degree C and her condition became one of extreme pro trati n Operation (as performed under the diagnosis of generalized peritonitis. If hen the abdomen was opened fluid pus escaped the entire peritoneum vas found to be dotted with miliary tubercles and a tiny perforation as discovere lin a dilated lo p of the small intestine proximal to a narroy el section. The perforation y as sutured an I covered t th omentum Since appendicutes could not be excluded the appendix was removed. Re-

covery fill yed

On the base of this case the author I scusses the etiol gy clin al picture and therapy of intestinal tuberculosis Sometimes the condition is nemary in the intestines but more often it is ass crated with tuber ulosis el e there in the body. In the stomach tube culos is rare but in the infestines it is the most c mm a afect us disease and the heal ag of the tuber ul us ulcers frequently leads to stenosis Lerlor tion is unusu? nloccurs as a rule in per sons who are a porg neral condition Adagn sis f ntest nal tub reulos n seldom be made The results of oper tive to atment will only improve shin operation is performed at the proper time In the hage of inte inal d tu bances the pos ibl p esence f intestinal tuberculosis must be kept n m n l even hen tub reulous foer cann t be demon tate i noth rp to of the b do The treat ment of hor s resect n S LIER (7)

Garvin J D Hype plastic Tube cul sl of the Du d num nd T minal H um Report of a Cas / 1 V 1 13 48

Hyperpl to tuber all s f the term had aleum without avoit count of the execum is extremely rare. In 1 cm at of the duodenum by the process has not been ten ited he et f e.

Thee er ported by the author vas that I a man them is yet a I ag is complained and distributed by the I all and in the which began in Feb u in 1925. Within the from six t ten be all my mements of u el daily. The stools contained in blood and there us a little griping. Miter fex yeek the dar hear censed and the patienting aned eight A wear lateratriceure flor about two or the educys very in mith the tempera ture occasionally rose to 10 degrees F and there was an occas and letucocyto as light a 14,000.

When the pat ent vas first seen by the author his weight had decreased from 154 to 127 lb I hysical

examination revealed generalized abdominal tender ness and a right inguinal herini. Pliotoscopic examination showed a persistent divident deformity which was attributed to dividental ulcer. Chest examinations were negative. Reentgenograms of the colon made four times over a period of two years and repeated proctoscop examinations. Viasser mann tests and examinations of the sputium were negative but the patient continued to compla nof dispeptic symptoms sour gas belching soreness in the stomach and distribute.

In vigust 10 9 he appeared definitely emaciately and compliance of being bloated. He then weighed only 123 lb. On roentgen examination the clonagan appeared negative but the terminal ileum failed to show normal emptying phenomena. The term held the barum event and felt to the pal prints hand like a rope. His lumen v as markedly harrowed. A dignosi of the perplastic tuberculos.

of the terminal sleum was made

to operation per fined October ? 1020 the terminal elemn vas found to be malkedly indexend for a distance of about 15 cm from the december valve and studded 1 cth many tuberiel. The exemmas normal to palpation The du denum was mark edit inckened and stud feet with tuberies unmiar to those in the histal iteum. The policius was almost completely obstructed to glands vere palpable anywhere in the 4b lomen

any where in the vi tomen. On eccount of the patient's poor condition only a simple gastro-enterotion's was done. Convalence was uneventful? By January 3 1930 the patient's neight as 3.17 lb but in left rury, the sensat not weight and distress in the stomach associated the distress and a propressive loss of 5 eight recu rod districts and a propressive loss of 5 eight recu rod and the congreted tumor was then palpable in the right A definite clongated tumor was then palpable in the right of the or engudariant. To date the prittent has refused to

allo s resect on of the affected segment of bo el There are to a main types of intestinal tubercu losis (1) the ulcerating type thich is practically always secondary to pulmonary tube culosis and (2) the by pertrophic type which was first described by Ha tmann and Pilliet in 1891 and is evidence of the successful reaction of the body agranst organisms shich are either few in number or attenuated in s rulence. The latter has been described as the real surg cal tuberculosis The infection probably occurs through the blood and lymph stream The lesion is formative rather than destructive The most fre quent site of the disease is the ileocrecal valve. The alls of the affected segment of bowel are markedly thickened , hite or gravish white and occas onally studded with yello vish tubercles Ulce s are usually present some there in the muc sa Occas onal tem perature reactions and leuc cy to s are pr bably ac counted for by ab eption through the mucos ! ulcers The disease is of long duration and associated with some, hat indefinite symptoms. The most common early symptoms are dyspens s nausea and oc casional comiting Abdominal pain is often present D arrhera and constipation frequently alternate

W J Mayo has reported several cases of aleo cascal tuberculosis in which anastomosis performed as a preliminary to bowel resection was followed by complete rehei the necessity for later resection of the affected segment of intestine being therefore obviated Jork W NUZUM M D

Waters C A The Roentgenological Diagnosis of Papilloma of the Duodenum Im J Roentgenol

In a review of the literature on benign tumors of the duodenum the author was able to find only three cases in a which the neoplasm was diagnosed roent genologically. Papilloma of the duodenum is a very rare condition. Waters reports a case in which the pre operative diagnosis was made both roentgenologically and clinically and was confirmed by operative findings and microscopic examination. The roentgen finding on which the diagnosis was based was a multilocular filling defect within the lumen of the duodenal cap. The marginal contours of the cap seemed to be entirely normal.

ADOLPH HARTUNG M D

Murard J Intraperatoneal Closure of the Artificial Anus in the Lrige Intestine (De la fermeta e intrapératoneale des anu contre nature du gros intestin) Bill climém Soc nat de chir 930 lvi

The intraperitoneal method of closing the colic anus deals with healthy tissues brings together serous surfaces allows another view of the focus of the first operation replaces the freed intestine in the peritoneal cavity without adhesions and per mits exact reconstruction of the abdominal wall The colon is left adherent to the wall but is prob ably liberated spontaneously later by the contrac tions of the abdominal wall or the intestinal mobility There are usually protective adhesions around the focus and the operation while remaining intra peritoneal takes place in relatively circumscribed area of the peritoneal cavity Duval says that closure of an artificial anus should be delayed until the tissues in the fistula are clean and the wall of the colon 1 normally supple. The average delay is three months

Intraperitoneal enterorrhiphi permits a more extensive and more careful dissection of the muscles of the will which allows methodical repair of all of the lail ers of the wall and at the same time correction of the small eventrations which are often associated with colic fistular. In the 7 cases reported by Murard there were cacel fistular consecutive to an emergency appendectomy. Three times the enteror rhaphy was done on the creum which had been fistulated at the wall on account of paral via cocclusion. In case radical cure was undertaken on a fistula of the splenic flewire which was consecutive to the resection of a timor after exteriorization. In instance, a cycul amus made for an old occlusion was closed, and a left iliac anus was made when alparatomy, after the formation of the creal anus.

showed the presence of an inoperable sigmoid cancer All of the 7 patients recovered In 6 cases healing occurred by primary intention In r case the wall opened but the intestinal suture beld and the wall healed by secondary intention

All of the cicatricial portions of the intestinal wall should be resected. To the 3 layers of suture—mucous muscular and serous—Murard strives to add a fourth the seroserous. He then sutures the abdominal wall layer by layer with the exception of the skin and subcutaneous cellular tissue which he brings together loosely with 1 or 2 stutches.

BASSET who read this report to the Society stated that in a review of the literature he had found 158 cases in which intraperitoneal closure of a colonic fistula was done -58 cases reported by Duval Goetz and Murard 48 by Delore and Devaux 4 by Hohlbaum and 10 by Kappis In this number there was a death Of 10 cases of spontaneous fistula following operation for acute appendicitis intra peritoneal suture was completely successful in all However this method is not to be considered as applicable to spontaneous fistula as to surgical fistula and anus In cases of spontaneous fistula it is more prudent to do a derivation operation at a distance from the anus by exclusion or simple anastomosis and later excise the anus and the excluded intestine and reconstruct the wall

Ratcliff R A Submucous Lipoma of the Colon Giys Hosp Pep Lond 1930 lvxx 453

Ratchiff reports two cases of submucous lipoma of the ascending colon. Both were characterized by attacks of severe pain negative \(^{\text{N}}\) ray findings considerable flatulence and comiting. In one case the condition caused a loss of weight and diarrheea Nucus was passed but the stools were free from visible blood and no mass was palpahle. In the other case there was a mild constipation chemical examination of the stools recalled farily fresh blood but no excess mucus a soft indefinitely outlined mass was palpable and at operation the mucosa covering the tumor was found to be ulcerated. Both of the patients recovered after removal of the tumor

When these cases are compared with others re ported in the literature it seems fairly certain that the pain is due to spasm of the muscle coats. The attacks of pain may be caused by invagination. The history is longer than in cases of carcinoma. The occurrence of vomiting is not constant but is prob ably quite frequent Either constipation or diar rboea or both may be pre ent Loss of weight and flatulence are occasional sequely. It is very likely that chemical examination of the stools would show the presence of blood in a high proportion of the cases Tumors the size of a small orange are usually palpable but even these can rarely be felt very defi nitely As a rule \ ray examination shows the pres ence of obstruction but is negative as to the position and shape of the obstacle

While submucous lipomata of the colon seem to be rare it is probable that a large proportion of them never cause clinical manifestations. Tumors in the fellom are apt to be more acute than those in the colon. Those of the rectum are more characteristic and may be distinguished by proctoscopic examination. The differential diagnoss is difficult when only the chronic symptoms are considered. These tumors are confused with carenoma of the colon chronic appendictist by preplastic tuberculosis of the execum and other beingn tumors of the ileum and colon. The most important complication is instrussicationally nacrinis may result. The tumors are so obviously beinging that local excision is sufficient. In a few cases on record a cure resulted from spontane ous expulsion of the needbase.

I LIZABETH CRANSTON

Santos R P Technical D tails in Ope atlans for Anorectal Fistuire (Quelque po nis de t hn q da s les p ratin pou fistul a cetales) her S d tm d m d et d ck 1930 i 934

The treatment for an ordinary anometal fistula of inflammatory origin is excision of the course of the fistula without suture. In general failure of the opcration is due to (1) the evi tence of discriticula and ramifications of the fistula which have been over looked (2) the lack of good drainage of the operative wound or (3) improper postoperative dressings

The operation is best performed under spinal or epidural anasthesa as this gives complete relaxation of the permeal musculature and facilitates the disovery of ramifications of the fistulous tract. The position of the patient should be that taken for inthotomy. The operative wound should he of a type which is easily drained and drainage should be continued until complete contrastion has occurred

Roentgenography after the injection of bismuth may show the presence of ramifications of the 6 to lous 1 act but in order that such ramifications may be visible during the operation a coloring solution mu the used to impregnate the firmous tissue of the tract. The author makes injections of 3 per cent methylene blue into the external ordice of the 6s total. Nearly always the evil into the rectum in found and repaired easily. The surface should be examined for othe openings. The methylene blue solution disinfects the fistulous tract and dimmi hes the sensis of the wound.

For perfect drainage the operative wound should be dependent regular and extensive A large num ber of anorectal fistular are extrasphancteral Generally abscesses originate in the submucous cellular tissue by di ect infection of the rectal inucosa and the pus descends into the penical cellular tissue When the fintula traverses the sphincter the latter must be resceid not to place it at rest but to establish good drainage. It must be cul perpendieul alriy to its fibers. The wound should be easy to drain and its healing should be writched with the posterior angle whe e the muscle is voluminous. If all precautions are taken both sphincters may be ent without feer of causing incontinence.

The internal ordice is single whatever the number of external ordices and its position is below Mor gagus a valves. Only tuberculous or complicated sixtules such as those of the rectio sexial type have a high internal ordice. It is essential to know where the fistulous strate lies between the internal and external ordices. Anne times out of 10 the internal ordices when the 20 ordices is generally direct with the three the 20 ordices is generally direct with the three three 20 the passod with force through the muous for when this is done a part of the tract is left unoppened and the fistula recurs or the sphanters is cut two ordical ordi

Diagonal resection of the sphincter is the result of an error in technique. If there are a subsphine tetal fissith it is better to do the operation in a stages. When the tracts have been opened the cu taneous and mucous edges should be equalized so as to broaden the wound prevent simuosine is in the mucous part and justapo ition in the cutaneous part. The less acute the angle formed by the edges of the wound the easier the dressings and the more periett the cictingation. No matter how large the operative wound it must never be surred.

Draininge must be kept up during the ent re period of cicatrization. Dressing should be donce ery day otherwise a bridge of tissue forms or the nucous part of the 1 gund 1 isolated and ceases to drain

On the day of the operation the gas e should be put in place under pressure to pre-not bleeding. A separate wick of gaure should be placed in each ramification. The gauze may be held in place in an armount of the placed in each plands of sparanting and a T bandage. After the first dre sing it i absolutely nece sary that the wound be dressed day. Uter the third day the patient may go to tool each morning before the dessing Because I the spinal anasthe in he should not at tempt to nalk until the third of fourth day. The average time for healing is from three to four weeks Inserting of the secretion at any time means that the wound is not draining reli-

In 105 cases operated upon before the adopt on of this technique there vere of failures nearly all of which vere due to the perst tence of a diverticulum.

D nnhelsse F Radical Ope ation fr Cancri
the R turn (Zu Radil per tind Mit
damkeb) Bizil Ch 93 x 5

The author reviews 168 cases of carcinoms of the rectum which were treated at the Nurmbe g Hos pital in a per od of six and a half years a yearly average of 26 cases. Lightly see 15.78 per cently e e inoperable. The cases are classif ed according to the age and set of the patient the function of the dieses and the location and histological character of the tumor. The duration of hie in the inoperation cases war ed from half a mount to several years.

In the choice of operation the first consideration should be the possibility of preserving the sphincter and maintaining continence. In the \$1\$ operable cases reviewed amputation of the rectum with the formation of a sacral anus was done \$27\$ times sacral resection 37 time abdominosacral resection 11 times and Hochenegg's pulling through procedure 6 times. The Kirschner abdominosacral extirpation of the rectum with the formation of an abdominal anus was not done

Of the 81 surgically treated patients 24 died Five of the deaths were considered late fatalities and 19 were included in the calculation of the primary operative mortality In the cases treated by ampu tation of the rectum there were 7 early and 3 late deaths the operative mortality heing therefore 50 per cent and the total mortality 37 per cent. In those treated hy sacral resection, the operative mortality was 18 9 per cent (7 deaths) and the total mortality (including r late death) 21 6 per cent In the cases treated by abdominosacral resection there were 5 early deaths and 1 late death the oper ative mortality being therefore 45 5 per cent and the total mortality 54 5 per cent. In the cases treated hy the Hochenegg procedure there were no deaths The total operative mortality was 23 5 and the total mortality 20 6 per cent

Of the patients who survived amputation of the rectum for three years 40 per cent were free from recurrence and of those who survived thi operation for five years 50 per cent were free from recurrence. Of those who survived sacral resection for three years 35 B per cent were free from recurrence and of those who survived for five years 444 per cent were free from recurrence Of those who survived and ommosacral resection for three years 50 per cent remained free from recurrence at the end of that tim and of those subjected to the Hochenegg procedure 1 remained free from recurrence for three years.

years and t for five years

A comparison of the results of sacral resection
with the average results obtained by Heller with the
combined method favors the sacral resection. Not
only was the operative mortality of sacral resection
(10 per cent) lower than that of the combined method
(28 8 per cent) but the incidence of cure after the
sacral resection was higher (30 per cent) than the
incidence of cure after the combined method
Moreover of the cases treated by sacral resection
complete continence was obtained in 77 per cent
and a permanent fistula remained in only to per
cent. The author sees no reason for giving up sacral
resection in favor of the kurschner procedure

BUETTNER (Z)

Lahey F H Two Stage Abdominopermeal Re moval of Cancer of the Rectum Sirg Gynec &

Obst 193 1 692

Lahey describes a modification of the operative technique for two stage abdominoperineal removal of the rectum which he has employed in seven cases and believes is an improvement over other procedures

A median incision is made between the pubes and the umbilious and the field is investigated for

metastases and to determine the operability of the growth If the growth is operable the sigmoid is pulled out upon the ahdominal wall and the lowest point above the growth which will reach above the standard and the investigation of the mession is noted. The mesenteric peritoneum on either side of the mesentery from the sigmoid down to the promontory of the sacrum is cut and all of the mesenteric vessels from the sigmoid down to hut not including the superior hæmorrhoidal vessels are cut and ligated.

A small counter incision is then made on the left side and the bowel grasped at the level of section with an Ochsner clamp Within the abdomen another Ochsner clamp is placed transversely across the sigmoid parallel with the first hæmostat and the bowel is severed with the cautery. The bowel and its me entery are thus severed down to the promontory of the sacrum while the superior bæmorrboidal vessels are left intact to nourish the lower segment of the rectum Raw surfaces are peritonized and the proximal end of the severed sigmoid is drawn through the colostomy opening and fixed in place with a few suture the clamp being left in the dressings. No stitches are placed in the colon itself. A considerable loop of redundant sigmoid is preserved beneath the colostomy to act as a facal reservoir. The lower loop of howel with the Ochsner clamp in place is sutured in the lower end of the pubic incision and the abdominal wound is closed with the usual layer closure. The clamp generally sloughs off in about seven days. The upper clamp on the colostomy opening may he opened at any suitable time

As soon as the clamp is off of the lower segment irrigations are made several times daily with a speculum in the anus the solution heing introduced through the upper end of the distal sigmoid which was brought out through the lower end of the abdominal incision above the pubes. Thus all facal material is washed down and out through the rectum.

As a rule the patient is in good condition for the second stage of the operation at the end of two weeks. If not further delay of the second stage is permissible as the circulation of the lower end of the rectum is maintained through the intact superior hemorrhoidal vessels.

In the second stage of the operation the colostom, wound is sealed up and the lower segment of howel which was implainted in the abdominal wound is dissected free and its end is sutured shut. The stump is painted with indine. Then the surgeon having put on a clean gown and clean gloves the abdomen is re opened through the original incision with clean instruments. The superior hemorrhodal vessels at the promonitory of the sacrum are ligated and severed and the peritoneum on either side of the rectum and in front of it is incised. The ureters are identified and dissected out. The rectum is next freed from the hollow of the sacrum to the tip of the coccyx, the free bone is pushed down into the

pelvis and the displangm of the pelvic peritoneum i restored abo e the rectum The patient is then turned on his side an! after the arms has been sutured shut the remo al of the rectum is accomplished in the usual manner with or i thout the remo all of the cocky is seems best in the particular case. I vubber dam eigarette drain or gruze pack may be inserted into the nebus easily.

may be inserted into the petice earity.

In conclusion Labe, says that I table this procedure is not without undestrable features if appears to him to approach more nearth the ideal
one stage abdominosacral remost all cancer of the
return than other to stage methods. The second
of the control of the stage methods are second
tested because the blood supply for distance to the
tested because the blood supply for distance to the
tested because the blood supply for distance to the
tested because the blood supply for distance to the
tested because the blood supply for distance to the
tested because the blood in the pelvis is over
come and the second stage involves the removal
of a relatively clean xectum. Good pote tori drain
rige is established immediately after the critens is
plying distance to the proper drain
rige is established immediately after the critens is

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

Irleden ald J and Morris n T If A Clinical Study of Gumma of the Li er 1 J M S 93 1 156

The ruther studied ten c see of gumms of the her in high the ingnos as based on the physical finding and the response t antisyphilis treatment. This c n I ti n is d agnose I in ab ut in 2000 ca es admitted to the clinic but in ome instances may be unrecongred as the drags sis.

Iten quite diff cult

It may be congenital or acquired. P thological examination may nevel 1 large gumma may amailifuse or hoss perhepritits or am combination of these lesions. The divigious is based on (1) the symptoms of a tumor of the liver (pan in the 11th upper quidrant of the abdomean which may raid at to the should reading stone 12th slight journal of an iditation of the abdominal custs in a piers in the trend that year of 18th in 18th year of 18th in 18th year of 18th in 18th in

Usually treatment with mercury and iodi less folloved by marked improvement in about six eeks. I revious affect ons f the liter render it more

susc ptible to this condition

M LRIEL DAL MD

Ive A C Dre y G E and Orndoff B H Tle Effect of Cholecy tokinin n the Human Gall Bladder I d I 1 9; 343

The authors have previously reported the preparation of a specific substance extracted from the mucosa of the upper part of the notestinal tact which upon intravenous injection caused the gall

bladders of dogs and cats to contract and evacuate They verified the pecificity of the extract by cross circulation experiments and concluded that a homone mechanism was involved. The called the substance cholecystolyini

In this article they describe a method of prepar in a choice stokum concentrate which in the dog i active in doses of from 3 to 1 mgm. Fill ing the intravenous injection of choice stokum the response of the gall bla liers of different dogs values considerable. He variat in probably deep in 1 upon the depth of the anxistence and the degree of the turbance of the blood supply of the gall bladder.

Since a relatively purified e tract had become curt of or annual experimentation the update one of cholecy stokuna vere treed on man. The gail bit does not not consider the consideration of the consideration of the curt of the consideration of the consideration of the constant of th

vals of from ten to thirty minutes

In one mormal subject the results were indefinit. In the f or others is me degree of rall bladder execution with a change in the contour of the organ is noted. In one the execution was complete and in three it as partial. To of the fire normal subjects felt in the header lost from this to sixth minutes. In the normal subjects seen the header lost increases on the normal subjects seen the normal subjects seen the normal subjects seen the normal subjects were definite contraction or change of the contour of the gall blad ler has detectable ten minutes after the hist meetions.

Of the three patients to sho ed a definite decrease in the size of the gall bladler after the administration of the cholecyatch ann. One of these had pericholecyatch ann about one and a half minutes after the second administration he developed pruritius and theals appeared at the stee of seratching. One patient sho ed no emptising of the gall bladder and of cloped a chill first minutes after the third singerton. These reactions vere probably due to impurity if the e tract use

The auth is believe that there is little therapeutic value in cholee stokinin. When the substance is given int avenously it produces the sime effect as egg. It and ream given orall and is might be spected produces those quickly.

S NLEY H ME TEE M D

King E S J Epiti eliai Proliferati n and Meta plasia in Cl tonic Cholecy titi J C I go S 1 1 1 1 93 45

In the gall bladder ep th hal proliferation and metaphasa occur read is in response t even musor degrees of chrone i ritation. In a series of 50 gall blidders the suth r found the following prollerative conthelyal changes

t Lo thekat do ngrot the Gland of L schka lined by columnar epithel um ith relatively large lumnoa and extending into the muscular coxt and sometimes through the penture I coat ere present mo to per ceat of the gall bladders examined Goblet cells Goblet cells were found in 80 per cent of the specimens. They are relatively uncommon in the normal specimen. In the gall bladder all of the epithelial cells produce mucin though the globules do not coalesce therefore the cells appear vesicular when large quantities of mucin are produced. Accordingly typical goblet cells are comparatively rare but a few may be found in most cases of chronic cholecystitis.

3 Mucous glands Mucous glands were found in 74 per cent of the cases They are usually absent

in atrophic gall bladders with thick walls
4 Gastric glands in the form of branching
coiled tubular structures Glands of this type
occurred in conjunction with mucous glands in 44
per cent of the cases They are probably formed as

a result of metaplasia from the latter

5 Cholecy, stute cystica This condition was found in 10.4 per cent of the specimens. When the epithelial downgrowths are abundant and deep some of the gland spaces become cystic Proliferation is sometimes so extensive as macroscopically to suggest carcinoma. It may occur locally or in a diffuse form.

6 Epithelial stratification This may occur in single double or treble layers Prickle cells and keratin are not found in these cellular strata

7 Squamous epithelium showing keratinization and prickles. This was found in 2 cases. It is un common in the gall bladder although squamous

carcinoma is not rare

8 Malignant proliferations Malignant proliferations occurred in o per cent of the cases. This unusually high incidence in the gall bladder is probable explained by the severe grade of chronic cholecystitis present. Most of the carcinomata were adenomatous but several showed various types and gradations of mulignancy including spheroidal nucoid squamous and mixed cells. All except is were associated with gall stone.

STANLEY H MENTZER M D

Favre J A Contribution to the Compristive Study of the Immediate and Late Results of Cholecystostomy and Cholecystoctomy for Dillary Lithiasis (Contribution a letud comparative des réultats immédiates et elognés de la clolecyst stomme et de la cholécystectomie dans la litha e b l air e) P see méd I ar 930 x x mi

The absolute indications for cholecystectoms are (r) non function of the gall bladder due to obstruction or to sclerosis and atrophy of the gall bladder wall (2) gall bladder disease in a patient with a family history of cancer or signs indicating malgnant change in the gall bladder (3) gall bladder infection and (4) persistent fistula or recurrence of gall stones after cholecystostomy.

The indications for cholecysto tomy which may be considered absolute are (1) cholelithiasis in a patient whose general condition necessitates restriction of operative procedures to the minimum

(2) cholecystitis with cholangeitis demanding drain age (3) cholecystitis with biliary obstruction and (4) a gall bladder which is maccessible because of its depth or the presence of dense adhesions

The author's statistics on the two operations run almost exactly parallel as regards the immediate

mortality and late results

Favre emphasizes the importance of supplement ing surgical intervention with thorough medical treatment ALBERT F DE GROAT M D

Elischer E The Practical Importance of Suture of the Common Bile Duct (De praktische Be deutung der Choledo husnaht) Gyögyd i 1930 1 494

Of more than 100 choledochotomes 20 were sutured 11 in the past half year Of the 20 patients whose bile duct was sutured only 1 died. The bile duct was opened through the cystic duct 4 times transversely 6 times and longitudinally 10 times. It contained 1 or several stones in 26 cases. The trans verse section was employed only when the bile duct was narrow 115 purpose being to prevent stricture

Suture of the bile duct is contra indicated in the presence of interus cholangents and enlargement or sclerosis of the head of the pancreas. After the suture a gauze drain should be inserted. Seepage of the bile through the inci ion and the sutures cannot be prevented with certainty (Bakes observed it 230 times in 346 cases). In this regard improvement of the technique may give greater security.

Richter and Zimmerman have reported 29 cases of choledochotomy in which the abdominal cavity was closed completely after suture of the bile duct

Pólia (Z)

Bernhard F The Value of Blood Sugar and Diss tase Determinations in the Disposis in the Do termination of the Operative Indications and the After Treatment in Acute Diseases of the Pancreas (Der Wett on Blutzucker und Diasta e best munisen fuer de D agnostic Operationsinic kation und Nachbehandlu "der akuten Pankrea e krankungen) Klin Wel seh 195 in 1346 e

Four years ago the author suggested that the dis turbance in carbohydrate metabolism in acute dis eases of the pancreas can be turned to account in diagnosis and recommended the increase in the blood sugar as a valuable aid in the recognition of acute pancreatic diseases However recent experiences have shown that the blood sugar is not increased in all forms of acute necrosis of the pancreas | For ex ample it was not found augmented in several cases of pancreatic adema which according to Zoepffel is the preliminary stage of pancreatic necrosis Nevertheless in the e cases the disturbance in pan creatic function could be recognized with the sugar tolerance test (50 gm of dextrose) as the blood sugar rose much higher and in general remained high longer than in the case of the normal person The disadvantage of the method lies in the fact that it is not absolutely specific for diseases of the pancreas

However the course of the blood sugar curves make possible further conclusions

Whether and in how far it is allowable to gen eralize from the observations made cannot be stated with certainty on the basis of the few cases of pan creatic necrosis which have been studied in detail A decision will be possible only when careful blood su ar studies have been made in a large number of The mortality of surgery of the panereas being high it is very important to determine a hether h ht lorms of acute pancrestic ordema can be dis tinguished from the fully de eloped panercatic nec rosis by diastase and blood sugar determinations Taking into account the sources of error and the clinical nicture the author comes to the conclusion that an exact diagnosis can be made in a large per centage of cases Progressive deterioration of pan creatic function may likewise be recognized so that it will be not the to treat light cases conservatively at first

Bernhard reports two cases one with postopers two and one with tuberculous parotitis in which the exerction of disatase in the urine 1 as increased This 1 and ng is important as it shows the necessity of ruling out postoperative parotitis 1 hen secon lary necrosis of the panere s after an operation is sus petel and it is desired to verify the dragnosis on the basis of the d astase content of the urine all on the diagnosis on the disast of the urine all on the diagnosis or frecurrence of acute panerealize necrosis which sometimes d velops after an operation and is associated in the return of byte disastase.

values in the using

The influence of diastase on earbohydrate me tabol sm carnot be expla ned with certainty Per hans the process depends upon increased splitting up ol glycogen i hich must be compensated for by the organism If the is correct it is possible apparently in acut paner at c di s to influence the effect of increased diastase in the blood by insulin. As soon as a c ns derable disturbance of carbohy drate metabolism f um lack of the pancreatic bormone begins there should be no doubt as to the indication for insulin treatment. Insul a may be expected to gi c go d results in stimuliting the oxidation of sugar n the cells. The method by a hich it is ad ministered is pe haps not unimportant. In a case of necros s of the pancreas ated by the author hyper glycæmia a reduc done half by the subcutaneous administration of insul n In many cases bonever the intra enous method with continuous d on infu ston will prove most suit ble While a decisive opinion as to the value of this treatment is not yet possible the results of numerous investigations and cate that fa orable results are to be hoped for H V SANK(/) from 1t

Foord A G and B on B D Acute Interstitist Pancreatiti in T o Cases of Disbetic Coms 1 n J M 5 93 l 676

Ore of the author patients was a man t centy years of age who had had diabetes for ome time was not very careful with his diet and had been in coma to see before. The other was a woman with no previous history of diabetes who suddenly fell into come in the secenth month of pregna cy. One patient died eight bours, and the other twenty four hours alter the onset of the coma in spite of 1 gorous treatment.

The chief pathological finding in both cases was a marked relema of the panerers with scattered areas of polymorphonuclear infiltration and interstitual Broass. In the center of some of th areas of polymorphonucle is infiltration Irank, pus was discovered and in the surrounding actuar tissue there was necross. In the case of the patient with had had liabetes for some time fatty infiltration of the Ire and other organs was found.

The authors suggest that acute panereatitis may be the cruse of the abdominal pain in certain cases of dishetic coma Markie L Due VD

Broog P and Midialae G Chronic Pancrentitis
(Le pa cré ti chr ngu ) Pr se mid Pr
193 1 1412

Anatomically chronic pancreatitis is a sclerous pericanal cular perilobular or penacinous alteration of the pancreas

The mendence of the condition has not been determined By some the disease is con ident rare and by others as rather frequent. It is more common in limites than in males. Of the 177 cases on which this report is based 25 per cent usee those of females. The patients ranged in age from thirty to sixts cars.

According to the predisposing or determining cause 4 types of panereatitis are recognized (1) that due to a stemic infections or intorications (2) that secondary to disease of neighboring organs (3) that associated with other lesions of the panereas and (4) primary panereatitis associated with identical

and (1) primary panerative associated with checked for the action of his his may cause panerative include typhoid fee or ariola sevidation defeated for the panerative and the panerative associated with gratification and another associated with gratification and congestion of the panerative from most important chromic infections which may result in paneratives are tuberculoses and sphalis. He tout conditions which may cause the condition include leaf phosphorus arisine mer cury already and load poisonings.

The most common conditions of neighboring or gans leading to pancreatitis are inflammation of the bibary tract cholelithinsis and gastro intes inal lesions such as gastroduodenitis pengastritis per dao leatits duo local stasis chronic intestinal stasi append citis and duod nal divert cultur

Other lessons of the pancreas which are most often associated with chronic panereatitis are cancer and

pancreatic lithiasis

The general symptoms of chronic pancreatitis are guing talon after meals epigastic distress chronic distributes the passage of fettul large stools marked emacation and weakness glycosum pains of vary

ing localization and severity tumor signs due to compression and bæmorrbages in the form of epi staxis bæmatemesis melæna bæmaturia and pur

pura

Throne pancreatitis may interfere with bilary drainage and gastro duodenal peristalsis and cause irritation of the solar plexus. Pancreatitis with interior the state of the solar plexus. Pancreatitis with reterior reaction simulating bilary lithiasis or may suggest a malignant tumor. Occasionally pancreatitis causes compression of the pylorus or duodenum. There is also a type associated with intense pain which is often confused with the pain of tabetic crises. The pain bas been ascribed to compression of the solar plexus. Inflammation of the peritoecum and congestion during the period of digestion. There are also attenuated forms unrecognized types and intermediate forms of paccreatitis.

Laboratory tests are still incomplete and uncer tain However the diagnosis may be aided by ex amination of the duodeoal secretions obtained with an Eiohorn tube and tests of the stools urine and

blood for amylase

Examination of the pancreas at operation or autropy may disclose inflammation of the bead in duration of the head simulating a neoplasm in flammation localized in the body or the tail single or multiple foci of inflammation inflammation in volving the entire gland atrophic inflammation in pancreatic lipomatosis or a transitional form he tween acute and chronic inflammation. The bihary passages may or may not be involved. Histological examination may show perilobular intralobular or actinous sclerosis associated with degeneration or hyperplasia of the parenchyma

The authors discuss the difficulties of dia\_nosis based on the clinical manifestations. In most cases the diagnosis is made at operation. The differentiation between cancer and inflammation of the parceas is difficult. Biopsy is the only certain pro-

cedure

The most important routes by which the pancreas becomes infected are the biliary passages the lymphatics the pancreatic ducts the duodenim and the blood stream. The hemorrhagic type of pancreatitis is believed to be due to an aseptic auto.

digestion of the gland

In certain types of chrooc pancreatitis particularly those on a syphilitic basis medical treat ment may be beneficial. In insufficiency of the pancreas opotherapy may be tried in addition to regulation of the diet and attempts at drainage with a duodenal tube. In pancreatitis with increase surpainments are indicated. Cololecy steeticians should be considered when the gall bladder is affected and may be considered the cause of the paocreatic lessoo However cholecystostomy is the method chosen by most surgeons and results in a cure in about two-thirds of the cases. Drainage of the common hile duct may be done but is a more serious procedure than cholecystostomy. Methods less frequently used are naistomoss of a part of the bihary tract

with the gastro intestinal tract as in cholecysto gastrostomy and cholecystoduodenostomy Duval inserts a tube from the duodenum through the am pulla of Vater The indications for each method are based on the resistance of the patient the clinical type of the infection whether the condition is in flammatory or neoplastic and the findings at oper ation particularly the coodition of the pancreas and hiliary passages In any case the condition of the gall bladder is an important factor in the choice of the type of operation The authors discuss the indi cations for the various operative procedures the types of pancreatitis associated with gastro iotestinal le ions the procedures indicated for the latter (gastro enterostomy gastrectomy) are suffi cient The types associated with severe pain are treated by a direct operation on the pancreas such as pancreatolysis pancreatostomy or partial pan createctomy

In the discussion of this report JACOBOVICI (Cluj Roumana) stated that in cases with duodeoid ulcer be does a partial resection by the Finsterer method with a Polya anastomosis. In cases with gastric ulcer be performs a resection if separation from the pancreas is readily done. If separation is difficult he performs a gastro enterostomy. For cases with pyloric ulcer be prefers a Finsterer resection. The results of such resections are usually very good.

COLIN (Copenhagen) called attention to pan creatic reactions which occur in association with

pelvic inflammation in women

PATEL (Lyons) cited a cases of chronic pancreatitis with interius in which be obtained excellent results from cholecystogastrostomy. He finds the tech nique of this procedure easier than that of chole cystoduodenostomy and believes the objections to the method are more theoretical than real. He cited also a case of a subacute type of pancreatitis with pseudocystic development in which cure resulted.

from incision and marsupialization

Berarn and Mallet Guy (Lyons) stated that the type of obronic panceratiss without bilary re teotion but with pyloric stenosis is treated better by cholecystostom, than by gastro enterostomy. They believe that bilary infection plays an important next in the development of pancreatitis and that the role of digestive lessons is doubtful. They are of the opinion that syphilis is a more important factor than is generally believed. They regard cholecysto gastrostomy as the operation of choice in the majority of cases.

JACON T. KLEIN. W.D.

Hess J H Splenic Puncture as a Diagnostic Procedure in Infancy and Childhood Ann Int Med 1930 iv 467

In the diagnosis of enlargements of the spleeo in childhood the author uses the following procedure

With the patient in the recumhent position and in the cases of young children who are apt to struggle under partial anæsthesia or the influence of a sedative the spleen is held firmly against the abdominal vall with the left hand and punctured with a blunt bevelled 22 gauge needle attache I to a 2 or 2 c cm glass swringe Moderate suction is then use 1 The [lunger is not released until the needle is vithdravn. Only a lew cells are removed. After the puncture from o z to o 3 cem of a 1 1000 solution of adrenalin is injected subcutancously to cause contraction of the splenic cap ule

In the study of the cells removed the May Grum ald Giemsa stain is used In a Idition brilliant cress blue is employed to emphasize the

reticul tion of the re I cells

Splenic puncture may be of value in e tablishing the dagnosis of anamias secondary to delective regeneration of the blood cell such as van Jaksch's syndrome subacute and chronic cases of alcukamic types of myelogenous and lymphatic leukemias Viemann lick disease Gaucher's lisease and cer tain bacter al an l prot zoal splenomegal es. It is contra indicated in the symptomatic purporas hamophilia acute bacterial infections hamangio mata exists and malignant tumors of the spicen and all conditions in which the blee Ing r clotting time is prolonged

The article is supplemented by photomicrog aphs

of the e nd tions liscussed IINI MALO EY MD

M Miel a | J | Local Vascular Ci ange in Spienic Anamia IA b el II J 1931

Vic Vichael e amined spleens from patients with splen e anæmia i gypt an splenomegaly tuberculo st of the tleen and hamolytic saun lee and ear ried out experiments with regard to obstruction of the plene cin and the o gans ation I hamorrhage

n the rleen He on lu les that hyal n dege eration of the pulp afteries 1 a comm n courrence after the age of ten year but that to pr bably related to in olutional changes in the lymph id tissue an lof nop thological

s gn i c nce End phlebits of the splenic ven is probably caus d by an inc a e in the port I blood pressure and calc test on and thrombo is are secon fary plie nomena Thr mbo of the pleen ; not a d ett cause i splent nam a Sider te nodufes in the spleen at du t prattenal hem th ge which origin te f om ell p oidal cap lla ies (ongesti n of the splee fr m te ial hypertension o increased venous p essu e s imp tant causative lactor osis i Bantis disease may The p arte al thosis originate from per a terial hamorrhages. In hep tolienal fibrosis McMichael has noted a constant relati n bet cen sider tie nodules and hæmatemesis He concludes that both are probably due to me eased IA O LATER MD portal blood p essure

Bont M B Splen ct my tn Gaucl er a Disease

In 530 cases in which splenect my was pe tormed at the Mayo Clinic during the period of seventeen years from 19 3 to 929 melusi e Gaucher's dis

ease was encountered 4 times. All of the patients were women Their ages at the time operation was performe I ranged from twenty six to thirty six years There was no histo y of a fam hal tendency to the disease in any of the cases To o of the 4 patients were definitely known to belong to the le ish race

Gaucher's disease may not have any particular effect on the general health. The unusual soleno megaly is the most frequent cause leading the patient to seek med cal aid. In 3 of the cases reviewed there

wa no anæmia

Three of the 4 patients have enjoyed periods of good health foll ving splenectomy rang g from s ven months to almost ten years. The patient s ho died lived for m re than to years after splenectoms. The cause of her death was cerebral hemorrhage

Nothing sign feant has been di covered in the blo d picture of Gaucher's disease to establish the diagn sis. The removal of a lymph node splenic puncture or treplining of the bone marrov vould seem to be justified to determine a bether a case of obscure si len megaly belongs to the group of Laucher's di ease. The roentgenograph c ch nges in the bones may allo b of great value in the diagnosis Ilamorri agie diathesis may be an out standing featu e of the d sease

( aucher's disease in the lemale does not p colude the possiblity of p egnancy but may possibly have an effect on menstrual life. In r of the cases revies ed there was an abrupt cessation of me strua t on in the thirty fourth year. In another there has been a long peri d of amen rrhma si ce the splence toms but this may have been due in part to pre vi us rad otherany

Splenect my for Gaucher's disease although not to be regarded as curative must be looked upon as a means of affording great relief and no sibly of indefinitely arresting the course of the malady

#### MISCELLANEOUS

Bailey II Iu purva an Acut Abdomin 1 Eme gency B # J 5 g 93

While purpura is frequently mistake for an acute abdominal emergency it occasi n lly co stitutes such an emergency as it may gi e r e to intus uscepti n The d agnosis of the rash i often confusing but hen the rash a confined to the e tremities the purpuric sp is are all its most nume ous on the extensor surface. When there

ny doubt in the diagnosi the tourniquet test should be u e I This consi ts in the apil cate n of a s It rubber catheter rather t ghtly around the arm When purpura 1 present t r three minutes petechi I hamorrhages uppe r distal to the con stricted area Lytravasation of blood into the w 1 of the gut may give signs and symptoms of peri toniti and subscrosal hemorrhage may inte fere with the movement of the gut and produce symp om of intestinal obstruction

Bailey reports the case of a boy eight years of age who presented the typical picture of intestinal obstruction with purpura Purpuric spots were found on the buttocks but it was thought that the patient might have a concomitant intussusception. At laparotomy evidence of extra sasted blood beneath the seros; was found in about 4 ft of jejunum Uneventful recovery followed the administration of calcium lactate.

In the case of a patient aged twenty one years evidence of acute intestinal obstruction was present for forty eight hours and a typical purpuire rash appeared on the extremities. Operation was not performed. The patient made an uneventful recovery but was admitted to the hospital several months later with similar symptoms and a history of attacks of colic and vointing at weekly intervals. Because of the low platelet count. splenectomy was done. The operation was apparently followed by

The author has collected from the literature fifteen cases in which hæmorrhage into the wall of the intestine was found at laparotomy. In several a palpable abdominal tumor was present. At operation, the condition looked somewhat like the bloody extravasation seen in mesenteric thrombosis.

Acute intestinal obstruction may occur simul taneously with purpura as in a case seen by Donald son which the author reports. Donaldson's patient a boy of eleven years bad an attack of purpura with acute abdominal symptoms and the passage of blood by rectum. During convalescence he had an attack of acute intestinal obstruction. At lapa rotomy a tubular constriction of the intestine yin long was found about 5 ft above the ileocaccal valve. Lateral anastomosis was followed by recovery. The author agrees with Donaldson that the constriction in this case was a direct result of the extravasation of blood.

Bailey bas collected from the literature fourteen cases of purpura complicated by intussusception. Nine were treated by operation. Seven of the nine patients operated upon recovered completely. In four cases it was necessary to resect the mussusception. Three of the patients subjected to such resec-

tion recovered

In conclusion Bailey says that in cases in which a diagnosis of purpura is made and the abdomnal symptoms persist it is probably best to perform an exploratory laparotomy because of the possibility of intussusception and also of intestinal obstruction produced by other causes. In all chronic and recur rent cases, splenectomy, should be considered. The most valuable guide is the platelet court.

ALTON OCHSNER M D

Ogilvie W H Abdominal Orthopedics Guys

Hosp Rep Lond 1930 lx x 483

In reviewing the physiology of the abdominal wall Ogilve reminds us that the stresses of the abdominal wall are preponderatingly in the transverse direction Because of this fact he recommends trans verse incisions in abdominal surgery Such incisions separate rather than cut the all important literal muscles spare their nerve supply and divide the tendon of insertion in the line of its fibers so that function is recovered rapidly. They depend for their security to a very small extent upon the strength of sutures and therefore allow movement from the be gaming. They help to preserve the function of the shir. The transverse incisions in common use are

r The supra umbilical which gives ideal access
to the stomach transverse colon bile ducts and
pancreas and is used for most gall bladder opera
tions. There is practically no bleeding. The perito
neum and posterior rectus sheath are easily approx
imated. Healing is rapid. Adhesions if they form
lee in the line of the underlying viscera and not
across them. The resulting scar is strong and in
conspicuous.

2 The lateral abdominal transverse incision which gives an excellent approach to the ascending or descending colon or the kidney

3 Pfannenstiel's incision which is excellent for any major infra umbilical operation

4 The curved incision This is made below the umbilical scar in operations for umbilical hernia

Ogilvie applies physiological reasoning also to the problem of surgical treatment of gastric and duo denal ulceration. He says duodenal ulcers should be treated medically unless they give rise to cicatricial stenosis or profuse hamorrhage. Pyloric stenosis is accompanied by gastric delay and hyposecretion therefore posterior gastro enterostomy is sound in theory and satisfactory in practice. Duodenal ulcers giving rise to profuse hæmorrhage are usually posterior ulcers lying on the head of the pancreas and eroding the gastroduodenal artery Therefore they cannot be excised Gastro enterostomy offers no security against fresh bleeding moreover as the acidity is often very high and emptying occurs rap idly in these cases the incidence of renewed ulcera tion after gastro enterostomy is about 20 per cent Therefore the correct treatment is radical gastrec tomy with removal of enough of the stomach to insure reduction of the acidity below the danger level In cases of large and cbronic gastric ulcer gastrojejunostomy is insufficient and with local re section is unsatisfactory Partial gastrectomy be comes the routine procedure. The best results are obtained by the Polya operation

In cases of persistence of symptoms in the right side of the abdomen after operation visceroptosis in general is considered but especially ptosis of the right colon abnormalities of mesenteric fixation in testinal stasis accal distention and the common pains in the right iliac fossa which are erroneously attributed to chronic appendicitis. Many of these difficulties can be corrected by the patient. Colo pexy fails because it does not aid the propulsive power of the colon. Colectomy fails because it for moves the illeocacial sphinter. A po sible operation is the procedure suggested by Hurst transplantation of the illeocaccal sphinter.

Anoflach J C Intra Abdominal T r ion of the Omentum and Appendices Epipiotes (t) being intrabdomn l Torsion des Netzes und let lp p ndices ppl cae) D t le Zt k f Cl 1930 ccxxv 416

The syndrome of intra abdominal torsion of the omentum and appendices epiploica is discussed on the basis of the literature and two cases seen by the author On account of the great variety of topographic anatomical possibilities it is not sur prising that the diagnosis is all ays difficult. The symptoms may be acute or subacute. The patient is unable to rise or stand without name Adhesions are present in practically every case and are probably the chief cause of the torsion Nearly always the patient comes to operation with a wrong diagnosis. The only treatment to be considered is radical operation In the acute stage the indications for radical opera tion are pre ented by the stormy clinical si mptoms and in the recurrent form of the condition they are pr s ated by the duration of the pain and the

failure of other methods of treatment to give rehef
Werner Block (Z)

Shapiro P F Metastasis of Thyroid Tissue to Abdominal Organs Ang S 1 03 1 1 1011

Shapiro reports a case in which autopsy disclosed nodules of thy roid tissue scattered over the omen turn the peritoneal surface of the intest ness and the ovaries. The subject had a nodose gotter but the omental nodules had apparently not arisen from a beingn metastasizing adenoma.

oring measuram, automot.

I clopic thy rold issue has the same potential us as the this rold issue has the same potential us as the this rold issue in the next. It may problerate and it may become carcinomatous. Thy rold issue has been found in almost e ery organ of the body but so far as the author is an arc the case reported in this article; the first to be recorded in which it was discont each in the omentum and peritoheum. Shapiro believes that the thy rold issue in the o art in this case arose from an embry once the rold along.

M HERBERT BARKER M.D.

## GYNECOLOGY

#### UTERUS

Parjaktaronic S Myoma Uteri (Myoma uteri) Med Pregl 1930 v 172

The author first discusses the treatment of uterine

Palliative treatment consists of measures to con rol menorrhagia. These include (r) absolute rest and the use of styptics especially preparations of ergot (combined with calcium diuretin if hyperten son is present) and the extract of mammary gland recently recommended by Belle and Federoff (a) that and cold irrigations and tamponade with various gauzes saturated with glycerin or alcohol (3) curet tage followed by the injection into the uterus of a roper cent tincture of iodime as recommended by Bogdanovic and Ostr il and (4) in certain cases seneral treatment with baths and stimulants

When palliative treatment fails or is hopeless from the first active treatment directed to the cause is indicated. This includes operation and roentgen and radium irradiation. Actinotherapy is contra indicated in cases of necrotic gangrenous submucous and subserous polypoid myomata myomata associated with suppurative inflammation of the adnera carcinoma sarcoma or tumors of the ovary very large myomata myomata evertung great pressure on contiguous organs calcified myomata and myomata complicated by pregnancy prolapse of the uterus or herma. Extensive operation is contra indicated by

severe diseases of other organs

In the clinic to which the author belongs actino therapy stand in high favor but because of external circumstances the number of cases of myoma treated by irradiation is very small Of 348 patients treated between 1924 and 1928 only 23 were irradiated with permanently good results All of the women were more than forty years of age bixty one cases were treated symptomatically for hamorrhage with good results The remaining 264 patients (75 86 per cent) were treated by operation Operation may be con servative or radical Conservative operation is suit able for only certain cases The purpose of this operation is to remove the myoma while preserving all of the functions of the uterus Statistics show that in cases in which the myoma is the cause of sterility from 12 to 40 per cent of the women become pregnant after its removal Operation can be performed during pregnancy After conserv ative operations recurrence of myoma is frequent In the cases reviewed by the author its incidence was 1 2 per cent According to statistics based on other cases it ranges from 2 5 to 12 5 per cent

In the radical operative treatment of myoma of the uterus supravaginal amputation can be done only if the cervix is free from pathological changes The formation of stump exudates and recurrence of the myoma on the stump are rare. The development of carcinoma of the stump is also unusual in the entire. It rature Fleischmann could find only 50 cases of carcinomatous change in the stump. Preservation of the ovaries is not necessary as the meno pausal disturbances are no greater when the ovaries are removed than when they are preserved. In the clinic to which the author belongs the mortality of radical operation is 6.9 per cent. According to Doederlein it ranges from 6 to 8.5 per cent. The high mortality is due to postoperative complications.

In the author s climic total extirpation is done in all severe cases such as those of large cervical and intraligamentous myomata and those of uterine myomata associated with tumors of the adnera car cinoma or sarcoma. The mortality is 21 6 per cent. Ostroil gives the mortality as 17 per cent. Stockel as 4 per cent and Bumm as 6 p per cent. Vaginal total extirpation is of advantage in the cases of elderly and fift women but so far has been done only twice in the climic to which the author belongs. Of the radical operations supravaginal amputation offers the greatest advantages as it is technically very simple and is safest from the standpoints of asepsis and hampstass. Moreover it leaves the

vagina anatomically and functionally intact

The incidence of postoperative complications after radical operations cannot be determined with cer tainty since it varies greatly and depends on many factors In the 264 surgically treated cases reviewed by the author laparotomy was performed 170 times with total extirpation in 17 cases supravaginal am putation in 147 and enucleation in 6 In the 04 vaginal operations total extirpation was done only twice In 14 cases the myoma was complicated by suppurative tumors of the adness in 6 cases by ovarian or parovarian cysts and in 2 cases by car cinoma of the body of the uterus. In a case one of the borns of a bicornate uterus was myomatous and the other horn contained a pregnancy in the sixth month In addition the patient had a completely intact hymen which hardly admitted the index finger In a case of submucous myoma the uterus was ruptured by vaginal twisting off of the tumor supravaginal amputation therefore becoming neces sary In a case the bladder and rectum were injured Of the 264 women operated upon 12 (45 per cent) died Two of those who died were subjected to total abdominal extirpation and to to supravaginal am putation In the 22 cases in which drainage was established there were a deaths from peritonitis Causes of death in the other cases were peritonitis and pneumonia in a cases each, and ileus, embolism shock the an esthetic and a lesion of the bladder and rectum in I case each

Myomata as such very seldom injure the health Nevertheless the prognosis is uncertain because of the many secondary complications which may de velop and cannot be foreseen VEDAROVIC (G)

Mack II C and Catherwood A E The Asch h im Zondek Reaction in Hydatidiform Mole and Malignant Chorloneptth Ifoma Am J Ob ! & Gy c 193 Ex 670

T to cases of chortonepithelioma were studied by means of the A chheim Zondek reaction before and for some time after the primary operation. Both patients are living and in the case of one of them repeated negative reactions following bysterectomy and \ ray and colloidal lead therapy have confirmed the clinical d agnosis of apparent health. In the ease of the other the persistence of a strong positive re action after the same treatment antedated the de velopment of two small metastases in the vagina two months after the operation

In one case of hydatidiform mole the reaction (Reaction 1) was negative six weeks after e pulsion of the mole. In another case a strong positive reaction persisted for three weeks after delivery and cutettage and a second curettage performed ten weeks ftet expulsion of the mole because of prolonged uterine hemorrhage associated with subin olution of the uterus showed well developed decidua hydropic villi and isolated chorionie cells in the endometrium There was no evidence of chorionepithelioma Ex aminations of the urine have continued to give positive reactions for at months

The amount of hormone of the anterior lobe of the p t ntary gland which is excreted in cases of hyda tid form mole and malignant chorionepithelioma is greater than the amount excreted during normal p e nancy This hormone is an etiological factor in the formation of lutein cysts of the evary The autho s regard the Aschhe m Zondek test as an im portant aid in the diagnosis and prognosis of hyda tid form mole and malignant chorionepithelioma

E L CORNELL M D

Jannen y Wangermez and Ro set Brestand Meta ra es in Cancer of the Uterine Cervi (L m tat ad n le c ce du ol té) Gétbigs x 97

Before rad um vas employed few cases of metas tasis in cancer of the cervix were reported but since the int oduction of radium therapy the number has increased cons derably and the opponents of the use of radium s y that irradiation stimulates metastasis

The auth is review the literature and discuss fifty one cases of cancer of the cervix in which there were blood and Is mph metastases at a distance from the cervix. They found metastases in twenty three cases that had not been irradiated and in twenty eight cases that had been irradiated. According to these findings the incidence of metastasis is about the same in 1 radiated and non irradiated cases but as the number of cases treated by irradiation is to day much greater than the number not so treated

there are fewer metastases in irradiated than in non urradiated cases Moreover the cases that are straduated are usually much more advanced than the cases that are treated surgically

Young who has made systematic roentgen ex aminations of all of his patients belo e treatment has often found metastatic nodules in bones that were not suspected clinically. The longer survival after radium treatment often gives latent metastases a chance to develop In some cases metastases appear soon after treatment and it is evident that the manipulations in the introduction of the radium and massive doses favor embolism Therefore care should be e ercised in inserting the rad um lo al traumatism such as curettage and dilatat on with out anasthesia and massive doses should be avoided and the regional glands should be irradiated even s hen they do not appear to be involved

Another reason for the apparent increase of metastases after radium therapy is that careful a d repeated examinations are now made of patients after irradiation and metastases are found that sould not have been discovered fifteen years ago when inoperable patients ; ere not subjected to fur ther examinations AUDREY G Mo CAN M.D.

Zweifel F Tle Pres nt Statu of th Tr atment of Careinoma of the Cervix Uteri tm J Ob! € G) € 03 ₹ 59

The methods of treating carcinoma of the cerv x include surgery irradiation and surgery and irradia tion combined Radical total extirpation can be carried out either vaginally or abdominally Either method may he combined vith irradiation Irradia tion may be given with the \ ray radium of both

Rad cal abdom nal operation results in a cure in 20 per cent of the cases radical vag nal operation in 17 per cent and irradiation therapy alone in 17 ? per cent Irradiation may be given before or after

or hoth before and after operation

The combination of irrad ation and surgery gives better results than surgery alone Therefore surgery should never be performed without irradiation. Ir radiation cures a certain percentage of inoperable cases and has practically no mortality Impro e ment of results in carcinoma of the cervix will be obtained chiefly from improvement in d ag ostic method Th is evident from the results of P Zweifel who obtained a permanent cure in 87 per cent of a series of cases which i ere diagnosed early Education of 1 omen to present themselves for diagnosis for every irregular vag nal bleeding is of prime importance This should be a function of the

League of Nations and funds for the purpose should be collected as for the control of epidem c In the discussion of this report WARD stated that as the number of surgeons v ho are competent to perform a ra lical operat on for cancer of the uterus is comparatively small he des not accept the theory that operation alone is better than i rad

Committees on Cancer Control and Hyg ene o the

tion Of 259 cases of cancer of the cervix seen in the

Woman's Hospital New York during a period of eleven years and three months 250 per cent were operable the lesion being limited to the cervix and 74 I per cent were beyond that stage In the cases treated with radium the primary mortality was r r per cent an absolute cure was obtained in 43 per cent and a relative cure in 25 t per cent Of 170 cases treated by Ward's method with the use of radium alone a cure was obtained in 25 3 per cent Ward believes that small doses of radium with re irradiation whenever indicated (sometimes several years after the initial disease) will be found more satisfactory than large doses. He stated that more time is necessary to prove Zweifel's contention that the combined method will give the best results and until this is proved he will continue to employ ir radiation alone

Brettaures said that cancer statistics are not a reliable index of cancer results. Cancers differ in their pathological characteristics and therefore in their prognosis and as long as there is no uniform method of grouping the cases statistics are mis leading. With the use of pre operative irradiation complications such as vesical and uretbral fistulæ will become more frequent on account of technical difficulties caused by the irradiation. Cancer of the cervix is much less frequent in women of the fewish

race than in others

Wow Mixulico stated that for the last year and a half the Stoeckel Clinic in Berlin has been treating all cases of carninoma of the cervit by operation combined with radium irradiation. Every patient first receives 2 radium irradiations of from 5 000 to 6 000 mgm. hrs. distributed over the cervix and vagina. Three months after the beginning of the treatment in cases in which operation is possible (a large number of primarily inoperable cases become operable as the result of the irradiation) the Schauta Stoeckel radical hysterectomy is performed. The operative mortality is between 7 and 8 per cent. After complete convalescence a deep \tag irradiation is given. This is administered also in cases which did not become operable after the radium irradiation.

Heavy stated that in his opinion surgery is of very little value in carcinoma of the cerive recept in cases in which the disease fails to respond to ir radiation therapy satisfactorily and the uterus still remains surgically removable. If further irradiation is attempted in cases of the latter type persistent necrotic and painful dicers will result. Hysterect only will at least heal over the vaginal vault and render the patient more comfortable. External high voltage \text{\text{ray}} irradiation gives better results than low voltage \text{\text{ray}} irradiation as a routine procedure in all unfavorable cases

Stone stated that at the present time a diagnosis of cancer of the cervit without any indication of the type of the cancer means nothing. He believes that the study of the histological characteristics of the various types of malignant tumors will aid materially in the choice of the method of treatment.

McGLINN said that good results are determined chiefly by early diagnosis and this is dependent upon education of the public and the doctor

TAUSSIG called attention to the fact that in spite of the efforts which have been mide to educate the public and the doctor there has been very little improvement in the incidence of cure People still fear to come to the doctor for treatment.

FARRAR emphasized that while the application of radium can be learned quickly skill in the technique of the Wertheim operation is acquired only over a period of years

E. L. Cornell M. D.

Weibel W Operation and Irradiation in Cancer of the Uterus (Operation and Hestrahlen be m Gebaermutterkrebs) Strahlentherapte 1930 xxxvII 302

In view of the great variation in material methods of treatment and individuality of attending physicians it is difficult to decide which is the best method of treatment for carcinoma of the uterus Even statistics are difficult to compare because of the many factors which must be considered. The fight against cancer of the uterus must be better organized. The author believes that substantial progress might be made if a large number of institutions with abundant material would use a definite method of treatment with an exactly similar technique.

Today it appears to bave been established that operation in early cases of carcinoma of the cervix and in operable carcinoma of the corpus gives a higher percentage of cures than irradiation therapy alone and that in about 10 per cent of inoperable cases a cure may be obtained by the use of radium In other cases approximately the same results may be obtained by operation followed with irradiation treatment or by irradiation therapy alone A par ticular advantage of irradiation therapy is its low primary mortality of from r to 3 per cent The radical operation performed by the vaginal route bas a primary mortality of more than 3 per cent and the radical operation performed by the abdominal route a primary mortality of more than o per cent It would be well to search for a combination of methods with the advantages of each

The author operates in all suitable cases and gives postoperative irradiation treatments repeating the latter for a long time once or twice; early even when there are no indications of recurrence. In inoperable cases he gives combined irradiation with the roent gen rays and radium. Rusar (G)

#### ADNEXAL AND PERIUTERINE CONDITIONS

Capecchi E Strangulation and Torsion of the Pedicle In Congenital Tubo Ovarian Hernia (Sullo strozzamento e sulla tors one del pedunculo nelle erme tubo-ovariche congenite) Pol cli Rome 2030 xxvii sez chri 490

The case reported was that of a child six months of age. When the child was four months old the

mother noticed a small si elling in the left inguinal region but piid no attention to it. Two days hefore the child was admitted to the hospital the sielling became hot and painful and vomiting occurred three times. At the time of her admission the abdomen was some hat distended out the tempera good. A diagnosis of ordinary inguinal herma was made and operation performed. The contents of the sac were found to be a congested ovary and fallopian tube. A Bassin operation as done and the child

discharged well after twelve days Inguinal hernia of the adnesa is relatively fre quent in childhood particularly during the first year of life The mother generally notices a small's elling in the inguinal region which as a rule is at first reducible. If a physician is consulted at this stage he is ant to make a diagnosis of ordinary simple reducible inguinal hernia unless he thinks of the possi hility of tubo o arian hernia. If the hernia becomes strangulated it becomes prinful and comiting oc curs Rectal examination discloses at the inner ring of the inguinal canal a slender pedicle hich can be follo sed up to the uterus This i the fallopian tube If operation is not performed the local condition becomes vorse with the development of redness inflammation and pain The general condition is not ve y se tously affected e en in the cases of pa tients not operated upon until from eight to ti elve days after the strangulation

A a rule the nature of the contents of the herms a not determined until operation. However her mation of the adne are suggested by the contrast be twen the poor local condition and the good general co dition the absence of obstruction to the passage of gas and palpation of the fallopian tube in the rigin and rog on rectale ammation. Falure to make a definite diagnosis is probably due partly: failure to consider the possibility of tube ovarian herms. Of the seventy cases repo ted in the hierature the nature of the contents of the sax was determined before operation as performed in only nine (12.8) ner cent?

Tubo ovarian herias may be confused with in gunal aden to but on careful examination the surface of a gland and to be connected that the surface of a gland and to be connected to the turns. It may be confused also with cyst of Nacks canal but the latter is always fased and irreducible while even in cases of strangulated tubo ovar an herma there is generally a history of a period of aducibity. The vom ting in tubo ovarian herias i a reflex and improves in a few days whereas the vomit ing associated with strangulated intestant heria grows worse and gradually becomes ficealod. It is impossible to differentiate of a carefly between true strangulation of a tubo ovarian herias and simple torsion of the pedicle.

Operation should be performed as soon as signs of strangulation develop. The technique is the s me as that for ordinary inguinal hernia. As a rule the condition of the tube and overy is such that r. duction would be associated with the danger of causing peritornits. Therefore resection is usually necessary. Of the se enty cases which are reported in the literature reduction was possible in only four.

Before resection an examination should be made to see if there is any thrombosis of the utero arana vessels. I igation in a thrombotic tract may cause fatal embolism. The only death from operation in the seventy cases reviewed from the I terature was due to embol ism. The results of operation are generally excellent in spite of the extreme youth of the patients.

It ttand W. W. Prtmary Carcin ma of the F t toptan Tubes S f G<sub>3</sub> c & Ob t 93 1 683

In a revie of cases in a high the fallop an tubes ere removed at the Mavo Clin e dur ng the pet od of 1910 to 1928 the author was able to find o ly o cases of p mary earcinoma of the fallopian tubes As approximately 10 000 tubes yere removed the s e dence of the cond tion was o it per cent Seven of the carc nomata ere unilateral The carcino mato s gro th in olved the right tube io 3 case and the left tube in 4 cases. Of the series of about 10 000 tube 81 slowed definite s gas of carcino matous g with but in 70 tle g o th was considered to be secondary in the tuhe So far as could he determined 6 ere secondary to carcinoma of the ovary and 8 were secondary to care noma of the uterus Norris found only i primary care noma aod 8 secondary care nomata of the tube n more than 2 000 g1 necolog cal specimens. He reported al o 62 care nomata of the curvix and 32 mal grant les ons of the fun lus \oval stated th t of approx smately 2 000 fallopian tubes stud ed at the Johns Hopkins Hosp tal Baltimore up to December 31 927 primary carcinoma was found in only 5 its incidence b ing therefore o of per cent Such sta t stics certa aly do n t ind cate that inflammat on play such an import nt part in the development of carcine ma of the fallopian tube as has been sup posed by some

W th regard to the age incidence the author found that of 189 cases in which the age 1 as re corded the condition occurred between the ages of fort; and fift; years in 90 (47 per cent) According to Mantel the oldest patient on record v as se enty three years of age The youngest patient so far on record (one of the e t eated at the Mayo Cl mc) was twenty six years old. According to Singe and Barth carcinoma of the fall pian tubes 1 most comm n at about the climacteric. Of the patients wh se cases are reviewed by the author 4 i ere bet cen to enty five and thirty years of age 6 be tween thirty and thirty five years 24 (13 per cent) bet cen thirty ive and forty years 44 (3 per cent) hetween forty and forty five years 46 (24 per cent) het een forty five and fifty years 35 ( 8 per cent) bet een fifty and fifty five years 3 (12 per cent) between fifty five and sixty years 5 be tween sixty and sixty five years if bet een s ty

five and seventy years and r hetween seventy and seventy five years

Gallagher W J Primary Carcinoma of the Fallopian Tube J Missouri State M Ass 1930 xxvii 522

To the 196 cases of primary carcinoma of the fallopin tubes collected by Wechsler in 196 the author adds 42 cases which he has collected from the literature since that time and a case of his own

Primary carcinoma of the fallopian tubes is most frequent hetween the ages of forty five and fifty years. Its most constant sign is prin which was present in 56 per cent of the cases on record. Pelvic examination discloses a mass adjoining the uterus but an accurate pre operative diagnosis is extremely difficult. Early removal of hoth tubes and owaries and the uterus together with a wide marginal area offers the best chance for permanent recovery. The prognosis is generally doubtful. Of 37 cases in which the ultimate outcome is known death occurred from recurrence in 20

The case reported by the author was that of a woman fifty two years of age. A pre operative duag nosis of fibroid uterus was made because of the presence of a tumor in the left tower quadrant. At operation the left tube was found to be swollen at the distal end and the left ovary to be cystic. Micro scopic evamination of the tube revealed a medullary carcinoma. The patient recovered and at the time this report was made, five months after the operation was in good condition.

LEOPOLD GOLDSTEIN M D

Winter E W The Internal Secretion of the Corpus Luteum (Beitrag zur inne en Sekretion des Corpus luteum) 11ch f Gyna k 930 c li 548

The author succeeded in obtaining an œstrus inhibiting corpus luteum extract hy the following

extraction technique
Strictly friesh solid corpus luteum from the ovaries
of cows (200 gm) was divided into small fragments
rubbed up with anhy drous sodium sulphate and
mixed with ether. After from twelve to twenty
hours the mixture was filtered and the ether removed
in a vacuum. In this process the temperature was
not allowed to go above 40 degrees C as a temperature higher than that will prevent the osstrus
inhibiting action of the extract. The residue was
taken up in acctone. After another period of from
twelve to twenty hours the solution was again
filtered and the acctone was removed from the
acctone soluble portion in a vacuum. There then
remained 1 a c cm of a hrown oil.

In the white mouse extrus was prevented as long as desired by the dail, injection of from o z to o 3 c cm of the extract. When the injections were stopped the normal extrual cycle recurred. The ovanes of the treated mice were small and showed very small folicles

The products of a number of other methods of extraction which were tried and are described failed

to inhihit cestrus. An attempt to obtain the active substance in an aqueous solution was also unsuc cessful.

cessful In experiments on rats in which a fine silk thread was drawn through one horn of the uterus hy means of a flat needle and treatment with o 4 c cm of the extract was given for two days before and four days after the introduction of the thread a so called placentoma (a histological change of the endome trium with papillary processes into the lumen of the uterus which enclosed cyst like structures) developed around the silk thread and the uterus hecame en larged to twice its normal size. The same changes occurred in castrated rats which were brought into cestrus by folliculin and then treated in the manner described They were produced also by the hormone of the anterior lobe of the pituitary gland. In un treated animals and in animals that were treated only after the insertion of the thread the silk thread healed in without any reaction even when a much larger number of injections (up to twenty) were given On the other hand the corpus luteum extract caused a moderate enlargement of the mammary glands and thickening of the uterine horns

HARTSPEIN (G)

Cotte G Cysts of the Corpus Luteum and Amen orrhoa (Kystes du corps jaune et aménorrhée) Ljosch r 030 vxvn 613

The author reports the cases of three women who came to hum reporting that the menstrual periods were delayed for from thele to twenty days and that they felt just as in their previous pregnances. In each case there was a mass in the adnera which suggested an ectopic pregnancy. Operation was per formed in all of the cases and in two of them the affected ovary was removed although the author helieves that frequently partial resection or even enucleation of the cyst would be sufficient. It is often impossible to differentiate between a cyst of the corpus luteum and ectopic pregnancy. Under such circumstances operative intervention should not he delayed.

A corpus luteum may become cystic at any stage in its development but the effects of the change differ according to whether the cyst develops while the corpus luteum is progressing or while it is retro gressing The cyst does not cause amenorrhoa with signs of pregnancy unless the cells of the corpus luteum are still secreting actively. A histological study of the characteristics of the lutein cells at different stages of their evolution would doubtless clear up many obscure hiological problems When the author injected fluid from ovarian cysts into normal and castrated rats he found that the results were quite different according to whether the cysts were lutein or follicular cysts Meyer thinks that cyst formation in the corpus luteum may he caused hy a disturbance of function of the anterior lobe of the hypophysis the hormones of which influence not only the maturation but also the luteinization of the follicle AUDREY G MORGAN M D

### EXTERNAL GENITALIA

Sharman A Leucorrhoca In tie Virgin J Ob t & Gy ac Br t Emp 930 x x 1 483

The pathogenesis of leucorrhea is varied and often complicated. The author includes in his article a tabulation of all possible etiological factors.

In the majority of teo cases of leucorrhea in the tirgin in which ery detailed bacteriological studies were cirried out a staphylococcus and streptococcus a fungus and staphylococcus or a staphylococcus and coliform micro organism were found Trichomonas yaemalis was discovered in none

In almost two thirds of the cases of leucorrhoxa in the irgin the condition occurs betteen the twentieth and thirtietl year of age. In most cases it is unassociated, ith dysmenorrhoxa or any other complaint

A follow up of seventy six patients showed that the results of hospital treatment were unsatisfactory Numerous con litions may be causes or at least associated factors but in many cases no definite

cause is apparent
Anamia constipation and tuberculosis are not
etiological factors. A congenital erosion is often
unaccompanied by leucorrhopa and the latter may

te quite u relieved when an erosion its presume l

Leucorrhea varying in profuseness from time to time and associated vith prolonged intervals of amenorrhea or very scanty menstruation and il ac pain or b chache is sometimes present in cases of endocrine imbalance of the o ari n or thyro ovarian type.

Fungus 1 fections of the vagina—thrush and yeast—are commoner than 1 generally believed

Although the trichomonas vaginals was not en countered in the series of cases reviewed the possibility of the presence of this garasite in vargins should be bone in mind

A careful evaluat on of the ht tory must be made It is necessary to determme whether the condition is a minor and temporary symptom due to a temporary disturbanc of the ge eral health or a true profuse and pe siste t leucorrhea. In cases of the first type measu e to impro e the general health purgation hematin cs. esh air and exercise us sally effect a cure wher as n th se of the second type they are of little benefit.

The pat ent should be c ammed under ansistests A vaginal fresh drop (in normal sal ne solution) and bacteriological smears and cultures from the vagios should be examined. As a ule smears and cultures should be taken also from the cervit and uterioe cavity but the vulva and vag na should be examined first since if these p is are found to be the source of the excess ve d charge dilatation of the cervix will be un eccisary.

Indiscrimin te douching is to be condemned not only because it is painful objectionable and very difficult in the cases of v rgins unless a special nozzle or catheter is used but also because it is almost of no value Routine dilatation and curettage of the uterus is unscientifie. The treatment should be based on the findings in the particular case.

When no apparent cause can be di covered rad o stoleum (a mixture of Vitamin D and a concentrate of Vitamin A) may be given a trial for at lea t a month. If this fails cauterization of the cervix with the thermocautery shoull be done.

If RVEY B MATTHEW M D

#### MISCELLANEOUS

Don idson M Radium in Menorth ga and Irregula Uterine il wmorthage B t M J

Kreitmayer M. L. The After Effects i Int a
Uterine R dium for the Pr duction of th
Artificial M nopause B t if J 930 8 5

DONALDSON emphasizes the importance of making a diagnosis in cases of irregular uterine hamorrhage and menorrhagia When there are no gross ab normalities he tries conservati e treatment for a few weeks and if this causes no improvement he explores the uterus. In the cases of women o er forty years of age the treatment of choice for ir regular hamorrhage vithout gross pathological lesions is the induction of the artificial menopa se by means of radium The optimum dose is 5 mgm of radium screened with not less than o 5 mm of platioum and kept in the uterus for forty aight hours In the cases of young women the induction of temporary amenorrhops with radium must be considered v hen other forms of treatment fail In such cases larger doses are required to produce amenorrhæn and as the position of the o ar es is un known it is impossible to be certain of giving a dose that will be eff c ent and yet not produce permanent amenorrhoxa

ARRITATION reviews the case of nacty se as women in whom radium irradiation by the technique advised by Donaldson vas given to induce an artificial menopause and treatment without gross and the second of the control of the produced amenorating. The failures occurred in the younger vomen Menopausi symptoms vere prominent sequelic of the treatment seventy says of the patients reported later that they were benefited by the treatment and only three stated that their condition was orse A large percentage c mplained of pain but many had pain for the treatment.

Riddoch G N ryous and M nt 1 Manifestations of the Clim cte ic B t M J 193 1 987

There are three stages in the clinical pictu of the climiteters (1) the premenopausal (1) the meno-pausal and (3) the postmenopausal. The basis of climicaterie symptoms is over an insufficiency resulting in instability of certain endoe ine glands and through these glands in instability of the autonomic hervous system. This physiological distribution to the contraction of the contraction of

porarily upsets the mental as well as the physical balance giving rise to emotionalism with a general tendency toward gloominess apprehension and irritability. The more usual symptoms of the normal chimacteric are emotional instability vasomotor reactions and changes in sex feelings

At the onset of the climacteric slight changes in the woman s temperament are noted by the mem bers of her family and by her intimate friends. She becomes easily worried takes a gloomy view of life and seems to be in a state of mild anviety and apprehension. Her sleep is disturbed by flushes and dreams of domestic trouble and she awakes early with a worried mind. As the day goes on she im move as and by afternoon is practically normal.

The flushes occur in attacks which may be momen tary or last for several munites and vary in intensity Frequently they are worse at night when they are excited by the warmth of the bed. The longer at tacks may be preceded by headache palpitation or a sense of oppression in the chest. These symptoms cease with the onset of the flush. The flush consists of an erythema distributed chiefly to the head and neck and accompanied by a general sensation of

warmth with or without heat waves

Mental disorders which may be associated with the climacteric are of two varieties--psychoneuroses and psychoses. The basic psychoneurotic symptoms are anxiety gloominess and physical discomfort which differ only in degree from the similar symp toms which may be regarded as normal at the time of the climacteric For practical purposes one may consider the boundary line between the normal and abnormal to have been crossed when emotionalism is persistent and severe enough to lead to a more or less pronounced change in behavior and to invalid ism. According to Smith the climacteric is a cause or an associated factor in 8 2 per cent of the cases of insanity in women admitted to hospitals for the in sane Complaints referred to imperfect functioning of the intestinal tract heart or other organs are almost constant and delusions and hallucinations occur at some time in all but the milder cases De lusions tend to be associated especially with ideas of unworthiness death and poverty and are apt to have a strong sexual coloring Phases of mactivity occur These may amount to stupor but are broken by periods of agitation The danger of suicide is ever present and is probably greatest when the depression is less severe as at the beginning and toward the end of the illness Therefore the woman should never be ANTHONY F SAVA M D left alone

Condamin R Inflammation of the Fibroconnective Tissue—Cellutitis—and the Scienogenic Processes of the Connective Tissue of the Pelvis in Moman (La fibro-componentiate—cell in the—et is processus scleroghes du tusus component du bassin chez la femme) Gynecoleg e 1930 xxix 321 385 513 577

In the presence of menstrual or other pelvic congestion slightly edematous tumefactions small beads of various sizes which are painful on pressure and disappear when the pressure exerted upon them is sufficient and prolonged are to be found in the cul de sac of Douglas and complaint is made of a sensation of weight in the pelvis and vague pains especially pain on pressure or traction. This is the very beginning of cellulitis If the condition recurs regularly at menstruation a decrease in the supple ness of the cul de sac of Douglas will be noted in the intervals between periods. The cul de sac becomes retracted and pressure becomes increasingly painful Spontaneous pain begins and pain is provoked by walking This is the second stage of cellulitis After some years there is a fibrous transformation of the entire thickness of the cul de sac of Douglas and the uterus and rectum are almost in contact with each other because of plastic retraction which has de stroyed the connective tissue between them This is the third stage of cellulitis. The symptoms of this stage include pain in the kidneys irradiating into the lumbar region pain in the buttocks and genitocrural region and rheumatoid pains in the shoulders the nape of the neck and the region of the trigeminal nerve Under massage these pains cease almost completely Other symptoms are asthenia neuras thenia and disturbances of micturition and defeca

The treatment of cellulitis of the female pelvis should be directed toward obtaining suppleness of the fibropistic tissues distending the fibrous retractions and maintaining the result by continuous distending the test of the fibropistic tissues that the first object is accomplished by massage the second by hydragogic tamponade which diminishes the afflux of blood increases the absorption of exudates causes regression of the hyperplastic tissues and reduces displacements and the third by the wearing of a pessary Supplementary measures include dilatation of the internal cervical os with intra uterne lavage and cauterization with iodine supplementary surgical interventions or replace ments and special exercises

Condamin discusses Stapfers pelvic cellulitis conjestive ordematous and arthritic inflammation of the fibroconnective tissue of the pelvis inflam mation of the fibroconnective tissue around the neck of the bladder and in the right list ofsas star shaped and lateral parametritis. Muller's periproc titus Freunds atrophic parametritis Schultze's posterior parametritis and chronic inflammation of the fibroconnective tissue of the cul de sac of Douglas.

Hamant A Cornil L and Mosinger M Tubel Endometriosis and Endometrioma (Les états endométrioides L endométriose et l'endomét io ne tubaires Etude anatomique et cl nique) P sse méd Par xxxvii 1345

Histologically considered the endometrioma consists of nucosa of the uterne type which is endowed with a remarkable power of infiltrating by way of the lymphatics and veins. Only arely does it degenerate into an epithelioma. It is the only tumor the growth of which seems to be intimately related to the functions of in endocrine gland. Arising in the gentilitact it show all of the phases of the menstrual cycle and disappears at the menopause. When there are no ovaries there is no endometioma. The authors believe that the most important factor in the pathognesis of endometiona is ovariant distinction and that tubal endometinom: which heretofore has been considered merely a histological cumos ity should receive more attention from the pathol

The lesions found in the fallopian tubes are of

three types

in An endometrioid condition in high the tubal mucous shows a more or less gross resemblance to the uterine mucous. The epithelial cells frequently vary in form and the pseudoglandular structures frequently has an irregular cystic aspect. This condition is quite often of infectious origin. Nodular isthmic salpingitis (Chiari) and a le moman of the tubes (von Recklinghausen) should be studied in thubal endometrioms and endometrioma because whether inflammatory or not lesions of this type favor the development of endometriomate.

2 Tuhal endometriosis characterized by transformation of the normal fibrillary chorion into a cytogen c chorion (adenocytose and adenocyto-

myosis of Lahm)

3 Tuhal endometrioma a beingn tumor resulting from the proliferation of mucosa of a uterine char acter which invades the wall of the tube and extends by continuity to the neighboring organs. In short a proliferative endometriosis.

These three types may be found isolated or to gether. In one and the same tube the authors have observed the trunsformation of an endometrioid le sion into an endometriosis and endometrioma

Clinically, the most common symptom is pain due to perimetriate or perisapiniquis which are frequent complications of tubal endometriosis. The usu I complications of tubal endometriosis and endometrios man are due in part to the menstrual react on of the modified tubal mucosa and in part to the spread of the tubal endometriosis to no ghobining organs polypoid or malignant transformation of the endometrio it uses or mechanical obstruction of the tubbe endometrios is. The most important complication is extra uterine preciping.

Preventi e treatment consists of minute care at gynecological operations. In cases of bilateral lesions with perimetrits and persalpingitis hysterectomy should be done. In cases of circumscribed lesions unfalteral stip necetomy is apt to be followed by recurrence and it is advisable to induce temporary.

castration by radium or \ ray irrad ation | JACOB F KEE M D

## OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Matthews H B The Roentgen Ray as an Adjunct in Obstetrical Diagnosis Im J Obst & Gynec 1030 xx 61

A positive roentgenogram of the fetal skeleton is proof of the existence of pregnancy. This may be added as a fourth positive sign of pregnancy and may be obtained as early as the fourteenth to fifteenth week in 15 per cent of cases after from sixteen to eighteen weeks in 75 per cent and after

the eighteenth week in all cases

A positive diagnosis of normal and abnormal pregnancy including many types of fetal abnormalities can be made by roentigen examination provided the pregnancy is at or beyond the eighteenth week. The farther advanced the pregnancy the more positive the diagnosis

A positive diagnosis of fetal death can be made by roentgen examination apparently within three or four days after the death provided the pregnancy is at or beyond the sixteenth week. This is based on Horner's sixn and bowing of the vertebral column

A positive diagnosis of pregnancy complicating fibroids of the uterus can be made by roentgen examination provided the duration of the pregnancy is sixteen weeks or more

A positive differential diagnosis between preg nancy and pelvic tumor (soft myoma ovarian cyst etc) can be made by the roentgen examination

provided the pregnancy is at or beyond the six teenth week.

The filming dosage recommended is perfectly

safe for the fetus

Every patient who is to be delivered by clesarean section should have a roentgenogram taken to determine the normalcy of the child

A positive roentgenogram may be offered in court cases as proof of the existence of pregnancy

It is highly desirable that the obstetrician co operate with the roentgenologist and thereby help to develop simplify and popularize roentgen examination as an adjunct in obstetrical diagnosis E L Connect MD

Behney C A Extra Uterine Pregnancy J Am W

The author reviews 167 cases of extra uterine pregnancy. The condition occurred most frequently in women between the twenty seventh and thirty fifth years of age. The high incidence of anteflerion of the uterus and of irregular and delayed menstrua tion indicated an association between ectopic pregnancy and genital bypoplasia. The majority of the women were multipata: but as parity increased the incidence of ectopic pregnancy decreased the

Cases of extra uterine pregnancy may be classified clinically into 3 groups

The first group are obscure cases of long standing rupture in which encapsulation of the product of conception has taken place and symptoms are produced by infection of the pelvic bematoma or ad besions. Of the cases reviewed 6 5 per cent were of this type

The second group are the non urgent cases in which there is no necessity for immediate operation

The third group are the cases with signs of alarm ing internal bemorthage in which prompt operation is required. Of the cases reviewed, 74.8 per cent were of this type. A pulse rate above 110 was accented as the criterion of urgency.

The most reliable basis for the diagnosis is a his tory of amenorrhoda with recurring pain localized in the lower abdomen metrorrhagia signs of preg

nancy and a typical pelvic mass

HARRY M NELSON M D

Hellmuth k and Timpe O The Change in the Amount and Form of the Blood Calcium During Pregnancy (Die Aende ung des Kalkspie els und der Zustand form des Calciums in der Schwan gerschaft) Ard J Gynack 193 ctl. 479

In order to solve the problem of the changes in the amount and form of the calcium content of the blood during pregnancy a problem that has been studied by numerous investigators including Jansen Bokelmann and Bock Novak and Porges Rona and Takahashi von Oettingen and others the authors undertook further investigations to verify the find imags previously reported.

The determinations of the amount of calcium in the blood serum were made according to the method of De Waard on the following groups of women (1) 23 non pregnant women (2) 47 women in the first ball of normal pregnancy (3) to women in the second half of normal pregnancy (4) 34 women in labor and (5) 22 women in the puerperium The det of the women consisted of ordinary mixed foods

The blood was taken from an arm vem in the morning soon after the women arose collected in 40 c cm tubes and centrifugalized after half an hour The calcium content of the serum obtained in this way was found to be as follows non pregnant women 10 5 mgm per cent women in the first to the fifth month of normal pregnancy 10 2 mgm per cent women in the sixth to tenth month of normal pregnancy 100 mgm per cent women in labor 07 mgm per cent and women in the puerpenum 102 mgm per cent and women in the puerpenum 102 mgm per cent These figures which are averages agree favorably with the findings of other investigators They show that the calcium content of the blood decreases from the beginning of pregnancy

reaches its lowest point during fabor and then rapidly rises again in the puerperium

250

The second part of the investigation consisted of determinations of the total calcium and its dialyzable portion So far as possible these determinations were made on one and the same woman at different times during pregnancy The total calcium was de termined according to the method of Aramer and Tisdall and the dialyzable portion in the serum by rapid compensation dialy sis according to the method of Rona Haurovitz and Petto v The dalusis con tainers were made of collodion. The apparatus is described and sho vn in illustrations Five calcium chloride solutions with a Calcium content ranging from 6 5 to 2 7 mgm per 100 c cm s ere used as the external fluids The preparation of these solutions is described in detail I's o cubic centimeters of serum vere always dialyzed against 5 ccm of the outer fluid for three hours. The figures obtained are grouped in a table. The tal le shows that the total calcium , hich amounted to ro mgm in the fourth month fell to a 2 mgm in the tenth month While there was a distinct increase in the values in the eighth and ninth months this 125 within the hmits of error of the method ( ± 5 per cent) and therefore of no special significance

In order to obtain the most accurate results possible serial leterminations were made in various months of pregnancy in the cases of a number of the omen because the average of single determi nations on different women depends too much upon chance. It was found that in one and the same woman there was al ays a distinct decrease in the total caleium up to the tenth month of pregnancy and that the dialyzable calcium decreased corres nondingly. From the fourth to the tenth month of pregnancy the dialyzable portion of the total cal cium decreased from 60 4 to 58 1 per cent and in serial determinations on the same woman it a er aged from 50 to 60 per cent of the total calcium It is the efore evident that there is no increase in the dialy able portion of the calcium during the course of pregnancy and the assumption of Bokel mann and Bock of an increase of the dialyzable calcium is not justified as the fluctuations fall with in the limits of error. If the assumption that the nutrition of the fetus occurs by diffusion through the placenta was correct there would be an in crease in the dialyzable portion of the calcium due ing the course of pregnancy corresponding to the increasing demand for calcium by the fetus As the determinations here ith reported showed no such increase active resorption of calcium through the fetus or an activity of the placenta supplying calcium to the fetus seems to be a possibility I SIECERT (G)

I uppel E Placenta Prævla (Zur F ag d s Place ta pra- ta) Mo tes h f G b sish Gy h 193 lxxx 46

The author presents statistics on 73 cases of pla centa pravia (164 per cent those of primipara) which occurred in 7 936 labors. As history of demon strable previous disease of the endometrium was given in only 34 cases the naternal presented no new insight into the causes of the pathological indution.

The author discusses the therapeutic possibilities on the basis of his on a results and recommends the Braxton Hicks technique for the general practitioner. He emphasizes however that e en this procedure requires a certain amount of e perience in vaginal operations and that it may be very difficult to draw the leg of the fetus through a cer real ranal admitting only a fingers without causing injury to the mother. He believes that metrearys as is to difficult for He believes that metrearys as is to difficult for the general practitioner and tampon ade should be done only to allow transport tion of the patient to the hospital. On the other hand the hospital can fuffill its obligation to see the mother and child only be abdominal cassarean mother and child only be abdominal cassarean

In cases in which exsarean section was performed by Puppel there was no maternal mortality and the fetal mortality as 8 per cent whereas in cases of vaginal deli ery the maternal mortality vas 105 per eent and the fetal mortality 36 per cent The author admits however that the maternal mortality is not all ays so low as in one year the mortality in his eases of casarean section performed for most varie I indications was 8 per cent. He performs abdominal cusarean section for placenta pre is not only then there is a living child at term but al o when the fetus is dead and there is severe bamor rhage since by this procedure he is able to obta n the most certain and rapid hemostasis. He di approves of vag hal emsarean section in placenta prævia because of the fragility of the lower segment of the uterus 11 SCHARDT (G)

Brand trup E On the P sage of S me Substance from Mother to Fetus in the Last Part of Pegnancy 1st bits of d 93 x 25

The author describes a special technique by 1 hich it is possible to make to icurrent serial analyses of the blood of the mother and fetus after intravenous injection into the mother of the substance to be studied with regard to its passag from the mother to the fetus. He then reports the findings of a number of experiments on the pass go of giveose are described in the property of giveose and pentoses is explained as a slow diffusion through a pa sive membrane. To disacchandis the placental epithel um; almot timpermable

Esch P The Tre tment of Hype emests Gai daum fueber d Bh dl g dr Hyp m 1 g d m) f 1c d II ap 930 37

Not infrequently the treatment of hyperemes s gravidarum is begun too late because the trans ton from emesis to hyperemesis occurs ins dously a d after its occurrence the vomiting is often regarded as being still physiological. Hence it is advisable at feast in the cases of women who are delicate to treat the vomiting early. The patient should have her breakfast in hed and should be given small easily digested meals at frequent intervals Prop erly applied psychotherapy plays an important part in the treatment of hyperemesis Removal of the patient from the family also acts in a psycho suggestive manner Not rarely the uncontrollable vomiting ceases after her transfer to a hospital In not too severe cases drug therapy may be considered As hypochlorhydria is often present the adminis tration of small amounts of hydrochloric acid are indicated If these measures are not beneficial strict rest in bed is indicated and the administration of nutriment by mouth should he temporarily stopped As fluids are absolutely necessary a 10 per cent glucose solution should be given by Murphy drip When the fluid is not retained in the rectum an intramuscular infusion of sodium chloride solu tion or normosal is indicated. When there is marked loss of strength the intravenous administration of calorose or a 10 per cent glucose solution should be considered For sedation 0 5 gm of potassium bromide may be added to the infusion. In a considerable number of cases 5 c cm of a 10 per cent solution of sodium chloride were injected intra venously with good results

At the University Gynecological Chinic thirty one cases were treated by the measures discussed All of the patients were discharged cured. In a cases o com of blood or serum from a pregnant woman were injected intramuscularly in addition. In the case of one patient who was in a senious condition when admitted to the bospital interruption of the pregnancy was necessary. Important factors to be considered in determining the advisability of interruption of the pregnancy are fever internal abummuria cerebral symptoms (such as apathy unrest and delinium) acceleration of the pulse and loss of weight. T.T. Mayers (G)

Scriver W de M and Oertel II Necrotic Seques tration of the Kidneys in Pregnancy (Symmetrical Cortical Necrosis) J Patt & Bacter 1 1930 xxxiii 071

The authors review the literature on necrotic sequestration of the kidneys in pregnancy tabulate the findings in the cases recorded to date and report three cases of their own

In the majority of cases the condition follows a complication of pregnancy. The most frequent complication is retroplacental hemorrhage.

There may he no clinical signs to suggest renal involvement beforehand. The most common sign is codema of greater or lesser degree. Anuria may he the first clinical manifestation. This may occur up to five days after delivery and in fatal cases lasts from two to thirteen days. In general the duration of hifes directly pronortional to the amount of urine secreted.

The few studies made on the urine have shown alhuminuma in all cases and the presence of red blood cells in the majority. In examinations of the blood the authors found a rapid rise in the nitrog

enous constituents with a notably rapid accumula tion of creatinin as compared with the slow increase in this substance in chronic interstitial nephritis. The findings resembled those in acute obstruction resulting from bilateral blockage of the ureters. The blood pressure showed a marked variation

In their discussion of the pathology of the condition the authors state that necrotic sequestration in the kidney of pregnancy is the result of a terminal segmentary arterial collapse (vasoparalysis) with blood stasis and segmentary thrombosis with proximal extensions. They conclude that the assumption of a paralytic terminal segmentary circulatory down fall (peristasis prestasis and stasis) is in better har mony with the findings than the theory of vascular spasm and ischemua. George W Phillam M.D.

#### Brown R C The Intestinal Origin of Eclampsia Brit M J 1930 11 859

The pathological changes in eclampisa can be explained best on the hasis of toxemia. The condition appears to have its origin in the pregnant uterus arising either from the fetus or the placenta hut most prohably from the placenta. It is suggested that a primary town of unknown origin damages the liver so that substances from the portal blood pass unchanged into the systemic circulation and produce a secondary toxemia and that the latter is responsible for the convulsions. The fact that the periphery of the liver lobule is most affected is explained by the assumption that the primary town is brought there by the hepatic artery and takes effect where it is most concentrated.

In support of this theory the author points out that women developing eclampsia usually suffer from constipation and indulge in dietetic excesses being therefore in a suitable condition for the de velopment of intestinal tovamia

GOODRICH C SCHAUFFLER M D

Cotte G Cyst of the Corpus Luteum and Preg nancy (Kyste du corps jaune et grossesse) Lyon chir 1930 xxvii 640

The author recently reported three cases in which cysts of the corpus literum caused signs of ectopic pregnancy. In the case reported in this article ectopic pregnancy was suggested by a mass in the adnexa but operation disclosed a true pregnancy with cystic degeneration of the corpus literum of pregnancy. The cyst was resected with preservation of the ovary and when the patient was last seen the pregnancy was progressing normally.

Histological examination of the specimen showed that the corpus luteum was undergoing retrogres son. The fact that the removal of such a corpus luteum in the stage of retrogression may not have any effect on pregnancy does not prove that the corpus luteum is of no importance in pregnancy. It seems quite certain that after having prepared for the mucosal implantation of the ovum the corpus luteum ensures continuation of the pregnancy Recent work by Cornu has shown that as a rule

the removal of a corpus luteum of pregnancy is fol lowed by abortion Surgical destruction of the corpus luteum which is equivalent to its retro gression is follos ed by submucous uterine hemor rhage which ends in expulsion of the decidua and the ovum The inhibiting action of the corpus luteum on hamorrhage is reinforced by the action of the implanted of um. Is the pregnancy progresses the developing ovum gradually takes the place of the corpus futcum and the influence of the latter de creases prog essively. I or some time however the inhibiting acti n of the o um is not suffe ent to prevent hamorrhage and abortion. During this time the corpus futeum 1 necessary and its removal will cause abortion unless the activity of the ovum is e aggerated and suff cient alone to pre ent hamor rhage While an ovum fivery great vitality may become implanted and de clop in spite of poor preparation f the mucous membrane and an in sufficient cornus luteum this is exceptional

AUDRES G MORG M D

Elss S Pregnancy ith Bilateral Ovarian Cysts

1m J S g 93 338

In fr m 4 to 20 per cent of cases of pregnancy complicated by an ontain tum r abortion or premature fab r results from incarceration of the tumor or the uterus it thin the pelity it visting of the pedicle of the tum r athesions pressure from the tumor or infection. When o photectomy is per formed interruption of the pregnance, results more frequently during the econd half of the period of gestation than Juring the first half. Therefore a tumor of the ovary die covered during the second half of pregnancy shoul is be left alone unless definite indications for its remo af are pre entel. A small tumor which is frely me able and high in the abdorner may be left unde turbed at thout dancer to the mother or the child.

The author reports a case in which a d agnosis of blateral ownrain cyst it is issted predictes or rupture of the cysts was made and operation disclosed a cyst the suse of a large melon in the left ovary and a cyst the size of a large melon in the left ovary. Both cysts her ruptured and had it visit month Bilateral ooph rectomy was done. The cysts were simple cystomata. The patient made an uneventful reco ery and v as delivered at term of a laving normal male child.

GOOD ICH C SCHALFFLER M D

#### LABOR AND ITS COMPLICATIONS

Burger P Spasmodic State of the Uterus and Their Treatment (Su le état pa mod q es d lutér et le t t me t) Gy ét t b t 93 x 1

Spastic states of the uterus during labor are characterized by unequal duration of the uterine contractions and of the intervals bet veen them pain which is more severe than under normal conditions and most intense in the cervix and prolongation of labor due to very slow dilatation of the cervix

The theories advanced to explain three states are varied but all are based on the assumption that some resistance to the work of the uterus existes the tritability of the musefulature. It has been suggested that the obstacle is a congenitally resistant error or a cervit that has become right as the result of inflummatory changes. A congenitally resistant cervit is a read an apparently selector ting deer it will rap dly distate following the a firmit ration of a nacroule. It therefore seems apparent that in m is cases the origin of the uterine tetany must be sought in the body of the uterine.

Normally as long as the membranes remain in tact the uterine muscle slides o er the membranes as it retracts behind the projucts of conception

When this play between the membranes and uterine alf fe is not occur the resistance deranges the normal med anism of diditation the miometrium becomes irritated and the contractions become spassmod c. Ruphure of the membranes is sufficient to restore the contractions to normal. De ragne has found alterations of the decidua in such cales and the author has often noted a tendency to lard retention of the membranes after delivery. The cause of abnormal adhession of the membranes to the decidua is belief to be a previous infection.

It is impossible to distinguish both een the uter as spasm originating in the body of the uterus and that

originating in the cervix

The author's conduct of slovi bor with uterine system consist first in the administration of a natcolic. This is sufficient in most cases to restore the normal course of labor. When it fails the membranes are ruptured. When both procedures fail the condition is due to a true organic resistance in the certist which demands radial into ions or possible exercision. Author FDEG at vivi

Tagli lerro P A Case of Ruptur of th Uterus
During Labor (\propostodu d rottu
d t tagl) R ild gnc r93
3 9

Many obstetrician claim that rupture of the uterus never occurs unless the uterine wall has been cakened by die case scar tissue or some other cause. The author reports a case illustrating some of the factors leading to rupture.

The patient was a multipara of thirty file years to see previous pregnancies and deli enter had been normal. Duning the pregnancy under consideration she hid had an unusual feeling of tightness and distention of the abdomen. On April 30 the membranes ruptured spontaneously and an abnormally large amount of fluid vas di charged. Labor pan began during the alternoon of May 3 thirst they ere short and occurred at long inter als but the next morning they increased in frequency and length. When at 2 pm they were almost continuous the mids fie called in a physician. Following the administration of 2 c cm of thymophys a

the patient complained of general abdominal pain and the labor pains stopped. She was then sent to the author's hospital where rupture of the uterus was found and after extraction of the fetus and placenta total hysterectomy was done Uneventful recovery followed

In this case there was evidently a moderate degree of hydramnios The excessive distention of the uterus caused mertia for three days. The fetus was unusually large (4 oo gm ) and presented by the face The uterus delivered the fetus more or less completely into the lower segment which he came thin The patient weighed almost 120 kgm and her obesity obscured the symptoms of threat ened uterine rupture. Under these circumstances a large dose of thymophysin was given and com pleted the rupture The author does not think that this result argues against the use of thymophysin under proper conditions and in the proper dosage

Histological examination of the uterine tissues showed round cell infiltration possibly due to local inflammation which was not surprising in view of the long time between the rupture of the membranes and the operation There was an increased amount of connective tissue in proportion to the muscle tissue in the lower segment. This is not unusual in multiparæ It is due to the fact that even in normal deliveries a number of muscle fibers are rup tured and scar tissue is formed. This is why rupture is more common in multiparæ than in primiparæ

The mortality of uterine rupture under con servative treatment is high The author thinks hysterectomy is preferable in all cases whether the rupture is complete or incomplete. Some obstetri cians advocate the use of a Mikulicz drain after the operation but the modern tendency is to close the wound completely The author used a suh cutaneous drainage tube in the case reported be cause of the patient's obesity and the fact that the abdominal wall was soiled

In cases in which rupture is to he feared on account of a previous casarean section abnormal presentation or malformation of the pelvis the patient should be kept under observation during the last two months of pregnancy No echolic should be given and during labor the patient should be watched very carefully for the signs of distention of the lower segment and should be told not to exercise exaggerated abdominal pressure

AUDREY G MORGAN M D

Hasselblatt R Clinical Studies of Intraperitoneal Casarean Section Especially the So Called Low Casarean Section (Klimsche Studien ueber d e intraperitoneale Schnittentbindung n insbe on dere ueber d e s g Sectio caesarea profunda) Acta obst et gyn c Scand 1930 x Supp

The purpose of this article is to report the results obtained by abdominal exsarean section at the Uni versity Obstetrical Clinic in Helsingfors and compare them with the results obtained under similar con ditions by vaginal operations

The author reviews 275 cases in which abdominal cæsarean section was performed in the period from 1000 to 1027 The frequency of abdominal casarean section in relation to the total number of deliveries during this period was 275 57 305 or 0 48 per cent In the last ten years it has been 1 og per cent

In 248 cases the technique was that of the low cæsarean section with in 14 cases extraperitoniza tion of the uterine wound In 17 cases the classical cæsarean section was done and in 10 cases a muti lating operation was performed on the child. In 206 cases (74 or per cent) the indication was dispropor tion between the pelvis and the fetal head in 13 cases placenta prævia in 20 cases eclampsia and related conditions and in 27 cases miscellaneous conditions

In 40 cases (r7 82 per cent) sterilization was done in addition. In the cases of multiparæ without living children and in those of primiparæ sterilization was

done only exceptionally

The maternal mortality was 8 deaths (2 or per cent) If 4 cases of eclampsia are subtracted it was 1 47 per cent The gross fetal mortality was 6 o per cent and the corrected fetal mortality 3 o per cent In the cases of low casarean section the ma ternal mortality was 1 47 per cent and the fetal mortality 2 42 per cent The total puerperal mor hidity was 23 22 per cent

There was no evidence in these cases that the rupture of the membranes was of any decisive im portance in the mortality or morhidity. Neither was there any indication that vaginal examinations carried out in accordance with the demands of asepsis are so dangerous that they should he re

placed by other methods

Recently a bimanual examination has been made in all horderline cases of disproportion since in this way it is possible to prevent many unsuccessful high forceps applications and also many unnecessary casarean sections During the period from 1925 to 1028 0 158 women were delivered in the Clinic Of these 774 (8 43 per cent) had a narrow pelvis Spontaneous delivery occurred in 504 (65 12 per cent) of the cases of narrow pelvis and an abdominal cæsarean section was performed in 107 (13 r2 per cent) Of 67 661 women delivered in a number of Scandinavian clinics 634 (o o4 per cent) were found to have a narrow pelvi and of the latter 145 (22 80 per cent) were subjected to caesarean section. It is therefore evident that the attitude of the University Obstetrical Clinic in Helsingfors with regard to dis proportion as an indication for casarean section has been more conservative than that of Scandinavian chaics In the Helsingfors clinic the maternal mor tality due to disproportion has been reduced by low cæsarean section by one balf as compared with the mortality associated with delivery by the natural passages and the fetal mortality has been reduced from 41 85 to r 61 per cent

Of the 226 women who survived operation in the cases reviewed hy the author 106 (83,6 per cent) were followed up. Of those who had had a abdomi

nal exsurean section 49 per cent became pregnant again whereas of those who had had a casarean sections 5 per cent and of those who had had 3 o per cent became pregnant again

Of 86 women who had been delivered by lov cresarean section 57 (66 28 per cent) had had another abdominal exsarean section In 2 (2 33 per cent) of the 86 rupture of the scar occurred and in 3 there was slight thinning of the sear In analysis of these cases of rupture of the sear and of similar cases reported in the literature le i to the conclusion that extramedian scars often heal poorly. Therefore the attempt is now made to make the incision exactly in the midline of the uterus. This detail seems to be of greater importance for good wound healing than was heretofore assumed

## NEWBORN

krukenberg II Th Later Fate of Children De livred by Forcep (Ueb d t Schelldd h Zagboenn hide) 7 1 lbi f Gy k 93 p 8

It is very difficult to estable hithe causal relation ship bet een birth trauma and injury of the child manifested at a later date. It is known that in jury to the infant may occur in an entirely normal delivery

The nutber examined the children who had been delivered by forceps in the Gynecological Clinic of Bonn University between 1912 and 1929 In order to have material for company n 300 children born during the years 1912 to 1914 an l 100 children born spontaneously but in asphyxia dunng the years

1912 to 1928 were re examined The incidence of permanent injuries from forceps was relatively lov In SI cases of high forcens delivery it amounted to 10 per cent in 144 cases of delivery with forceps according to the Scanz ni method and from the mid pelvis to 14 per cent and in 739 cases of forceps leli ery from the pelvic

outlet to o 13 per cent On the basis of our present knowledge the question as to hos far birth trauma is related to the cause of death or the later development of the child cannot he definitely answered

In conclusion the author emphasizes that forceps delivery should be undertaken only on defi ite indications on the part of the mother or the child

## GENITO-URINARY SURGERY

## ADRENAL KIDNEY AND URETER

Le Fur R Pararenal Tumors (Des tumeurs para rénales) Bull et mém Soc d'chirurgiens de Pa 1030 Viii 484

Only 122 cases of pararenal tumor have been reported to date. These tumors can be divided into 3 groups (1) tumors of connective tissue origin (2) epithelial tumors and (3) mixed tumors con taining epithelial and connective tissue elements Most frequent are those of connective tissue originfibromata lipomata and my comata and combina tions such as fibrolipomata myvolipomata and fibr**o**my omata While histologically these neo plasms fall into the category of benign tumors they blow an almost constant tendency to recur Of the pararenal sarcomata the mixed forms such as fibrosarcoma and myosarcoma are the most common The connective tissue tumors originate from either the renal capsule or the neighboring connective tissue

The epithelial tumors are usually cystic and derived from the wolffian body. The cysts are unilocular and often contain blood. The endothe lium like lining distinguishes them from traumatic cysts the walls of which are entirely fibrous. There are certain polycystic tumors analogous to poly

cystic Lidney

Mixed tumors containing epithelial and connective tissue elements are rare Hartmann and Lecine have reported a sarcoma containing epithelial tubules. Clinically mixed tumors fall into 2 groups lipomata of the adipose capsule of the kidney and true pararenal tumors usually fibromata fibro mixomata and mixed tumors. The former frequently grow rapidly and reach a large size surrounding the kidney. The latter remain pararenal (not perirenal) but may form intimate adhesions with the kidney capsule.

The diagnosis is very difficult Frequently it can be established only by operation The mass may present itself as an abdominal or a lumbar timor depending upon the direction toward which it extends Ureteral cathetenization is of aid because it usually establishes the integrity of the kidney

Metastases are rare but the growth of the

tumors is fatally progressive

The treatment is always surgical The route of approach will be lumbar or abdominal depending on the size of the tumor and the direction of its growth. When the tumor is adherent to the kidney the operation should include nephrectomy. Drain age is necessary following the removal of a large tumor it is best established with a Mikultz drain

The operative mortality which formerly was 30 per cent (Albarran) has been reduced to about 25 per cent Recurrence is extremely frequent even in cases of tumors classified as pure lipomata. Therefore all pararenal tumors should be approached as though they were malignant.

The author reports 3 cases of his own and reviews the histories of 1r others which have been reported since the War

ALBERT F DE GROAT M D

Campbell M F Perinephritic Abscess Strg Gynec & Obst 1930 h 674

In reporting a study of eighty three cases of permephritic abscess admitted to Bellevue Hospital New York during the last ten years Campbell states that the condition may simulate chaically a number of other conditions and that in one third of the cases reviewed the correct diagnosis was not made until autopsy was performed Sixty seven of the patients were males. The higher incidence of such abscesses in males than in females is probably due to the higher incidence of cutaneous wounds in the male In the cases reviewed the right and left sides were involved with equal frequency While extension of the abscess from one side to the other may occur bilateral involvement is usually the re sult of blood stream infection. Nearly half of the patients whose cases are reviewed were between twenty and forty years of age The youngest was a female infant who developed a staphylococcus infec tion of the thumb when seven days old and died of sepsis on the thirteenth day. Autopsy in the case of this subject revealed bilateral multiple abscesses of the renal cortex and an early permephritic abscess on one side

Pernephritic abscesses may be of intrarenal or extracenal origin. When they are of intrarenal origin there is usually clinical evidence of urmary tract in volvement. Those of extracenal origin are probably the result of infection of the perirenal tissues through the retroperitional lymphatics or the blood stream from some distant focus. The author is studies indicate that the majority of perinephritic abscesses are of renal origin.

While most perinephritic abscesses eventually be come clinically manifest the disease sometimes be

comes localized and heals by encapsulation

The perirenal fat is enveloped before and behind by a fascial layer which above is united but below is open and continuous with the loose tissues of the true pelvis. In the infrarenal portion both perirenal and periureteral fat is to be found. Laterally, the envelope is closed but medially the layers pass over the great vessels and may fuse with the vessels of the opposite side. Surrounding this fascial sheath is another layer of fat—the pararenal fat—which is thickest posteriorly where it directly overlies the large lumbar vessels. A metastatic abscess formed

here may be clinically indistinguishable from a true permephritic abscess

A perinephritic abscess which has penetrated the posterior lascial layer enters the pararenal fat usually extends up yard and frequently leads to the lormation of a subphrenic abscess. In two of the cases reviewed by the author the perinephritic

abacess tuptured externally.

In 80 per cent of cases of perinephritic abacess the infection, is due to staphy lococt. The organisms next must frequently responsible are streptococci colon baculti pneumococci and gonococci. Metas tance perinephritic abacesses may develop during the course of an acute infectious disease such as pineumonia meningitis influenza variola scalatina of trybhoid. The most common suppurative loci of origin are infected skin lesions osteomychite respiratory infecti in and reastio intestinal fesions.

File most common a mptoms of pernephritus ab cess are lever pain gastro intestinal disturb ances and urinary frequency of sudden onset. The pain is usually localized in the bon | articularly in the costovertebral angle. It may be sharp and stab bing or merely a dull ache. Hermatura and pruma sometimes occur. In over half of the cases revise ed it e duration of the symptoms ranged from three

days to three eeks

There are lev lessons in which the languous is more difficult. Vodominal rigidity was found in fifty eight of the cases rever ed and a det intermass was palpated in fifty intermitted the least 5 per cent of all cases and when present is an available is given laboratory studies may be old efficient when ur naily is hot is interior and the blood court shows leucocytoss. Leucocytoss is lound in the majority of cases. Stereoscopic roently nography is of special value, hen it discloses obliteration of the majority of the pa as muscle on the sile of the absets so relateral spanal curvature a vay from the abscess.

The treatment nd cated is liberal meision of all pus pockets and the establishment of drainage

pus pockets and the establishment of drainage
In fifty four surgically treated cases the mortality
was 20 a per cent
BENJAM N F R LLER M D

Raffo \ Th Effect of Denervation of the Renail Iedunci and Ur ter in th Production I Dilarati in the Upper Utinary Tract (\cdot\)!

a n d 1 ped no 1 dit uet ell p du n d dlt n dell vet ell p du n d dlt n dell vet is p in 1 h ild d 1 193 \ Sa

Folloning a revice of the literature the author gives protocols of e-periments he extract out on arimals. He found that ection of the nerve floers in the renal plexus running in the peduncle caused changes in the function of the renal pelvis and ureter that were quite marked immediately after the operation but decreased rapidly until they disappeared entirely without leaving any demon strable dilatation of the upper urinary trans-

Decortication of the vessels of the renai pedunel was followed by doname changes which lasted longer

an I were more intense than those occurring in the first series of experiments but like the latter d's appeared without leaving any dilatation

I amting the vessels of the peduncle with isophenyl had only a transitory effect on the peristals of the

renal pelvis and the ureter

When both section of the nerve fibers running in the peduncle and pern ascular sympathectomy were done changes of a certain degree of severity were brought about in the dynamism of the renal pelvis and ureter but the production of dilatation was exceptional.

Decortication of a circular tract of the ureter d d not cause serious changes in the nutrition of the part but produced profound changes in the function of the tenal pelvis and ureter ith retention and distention of the cavity above the denervated section.

When both decortication of the vessels of the peluncle and circular decortication of a tract of the ureler were done there was rapid aboltion of all active movement with retent on and dilatation of the upper urinary tract.

From his find rigs the author concludes that mere ly functional disturbances of the renal pelvis and ureter without any mechanical cause may produce distation or dynamic by dronephros s

AUDREY G MORGA MD

Walter W. Resection of the Renal Pel is lor Highernephrosis Its Complication and R sults S f C 5 & Obst. 193 is 71

Walters describes the technique u el in successful resections of hidronephrotic renal pelves and re ports on certain postoperative complications which have necessitat discondary nephrectory.

Resection of the renal pelvis i as performed in eleven cases of hydronephrosis In eight cases (mine resections) the results of the operat on n re excellent In four of these cases the hydronephrosis was bi lateral and the renal pelvis vas large and infected In one case I dateral resect on 1 as dore 1th an interval of three months bet cen the operations. In this case also the result was e cellent Practically t o years have clapse I sinc the operation patient has been completel relieved of all symptoms ol renal retention or obstruction. This is probably the first case of successful re ection of b lateral in feeted hydronephrotic kidneys to be reported In three addit onal cases of bilateral hydronephrosis successful resection of one hydronephrotic renal pely s has been performed. Three months clapse before the other renal pelvis i resected

t ases of hydronephro is in which succes ful re sults foliot ed division of anomalous blood ve sels or connective tis ue sheaths are not included in this

rer ort

In one of the cases in which resection of the renal pelvi v as performed secondary nephrectomy, as ne ce stitted by a persistent urmany fistula from occlusion of the ureter by postoperative inferious around the ureter and in two case it was necessitude by pyelonephritis with cortical abscesses although urine was being transmitted successfully from the resected renal pelvis to the bladder through the ureter Complete recovery followed the nephrectomy

When postoperative stasis occurred in the renal polvis it was successfully relieved by the introduction through the cystoscope of an indwelling ureteral catheter which was left in place as long as the retention persisted. In spite of leakage of urine from the anastomosis with perirenal accumulation results may be satisfactory provided drainage is sufficient.

Walters draws the following conclusions

r Resection of the hydronephrotic renal pelvis is worthy of consideration when there is sufficient normal renal parenchyma and the function and con dition of the other kidney are not entirely satis factory

2 Bilateral resection of hilateral hydronephrotic kidney may be followed by excellent results

3 Postoperative complications such as tempo rary accumulation of urine within the renal pelvis immediately subsequent to operation leakage of utine from the pelvic anastomosis and pyelone phritis may not compromise the end result of resection of the renal pelvis if they are adequated controlled hut if they do not yield to treatment nephrectomy may become necessary and should not be long delayed if the opposite kidney is normal

Lazarus J A Heminephrectomy for Calculous Pyonephrosis in a Case of Bilateral Duplication of the Ureters and Pelves J Urol 930 xxiv 503

Among the frequent anomalies of the gemto urnary tract is the double ureter. When duplication of the ureter and the renal pelv is s found on one side the anomaly may he present also on the other side. The ureters usually empty into the bladder. If they do the upper ureter has the lower meatures.

The incidence of double ureter is helieved to be hetween 3 and 4 per cent. The condition is of interest from the clinical point of view chiefly because pathological changes are especially prone to occur

in kidneys with congenital anomalies

The case of duplication of the ureters reported by the author was that of a man forty years of age who gave a two year history of pain in the left lumbar region and large joints hurning on urination and

turbidity of the urine

Cystoscopic examination disclosed four ureteral orders and pus coming from the upper orifice on the left side. A diagnosis of lower pole infection of the left kidney was made. At operation the lower half of the left kidney including the renal pelvis and a part of the ureter was removed and the bleeding controlled hy the use of a muscle tissue. Decapsula tion was done a flap of perirenal fat was loosely stitched over the sutured pole of the kidney and a rubber tube and dam were placed helow for drainings.

Convalescence was uneventful and postoperative cystoscopic examination was essentially negative

In conclusion the author emphasizes that double kidney should he suspected when the pyelogram shows a small bizarre pelvis and that in a large per centage of cases of double kidney complicated by pathological changes in the upper or lower half heminephrectomy is safe

Exerk Hess M D

Bowen J A and Bennett G A Squamous Cell Carcinoma of the Kidney Pelvis J Urol 1930 xxiv 495

Squamous cell carcinoma of the renal pelvis is rare. While it is almost symptomless it is highly malignant.

The authors report the case of a man fifty seven years of age who sought treatment for urmary dis turbances and for coronary disease associated with substernal pain radiating down the arms and dyspnœa Roentgen examination of the urinary tract revealed a large coral shaped calculus in the left kidney After this examination the patient was transferred to the medical service for treatment of the cardiac condition A month later the left kidney was removed It weighed 120 gm Pathological evamination disclosed at about the proximal end of the calculus or the end nearest the renal pelvis a thickening of the pelvic mucosa with the formation of a hard gray growth which extended outward along the middle caly and showed extension into the upper cally The rest of the renal pelvis and the calvees were dilated and filled with a thick puriform liquid On microscopic examination the neoplasm was found to he a squamous cell carcinoma ansing in the renal pelvis

The patient made an uneventful recovery but six months later showed mixtled cachesia and gave a history of pain in the hack and loss of weight and strength for three months. He was then found to he suffering from a generalized metastatic carcinoma secondary to the tumor in the pelvis. The early recurrence in this case supports the conclusions of Scholl and Foulds with regard to the prognosis of squamous cell carcinoma of the hidney.

ELMER HESS M D

## BLADDER URETHRA AND PENIS

Boeckel A Fourteen Cases of Cancer of the Blad der Treated by Electrocoagulation Directly Through a Suprapubu Incision (Quatorze cas de cancer de la vess e 1 atlés 1 étuncidage à vesse ouverte) Bull et mén Soc d chiri rgie is de Par 1330 xul 507

In the cases of cancer of the bladder reported by the author the diagnosis was confirmed hy biops. The immediate results of treatment hy electrocoagulation were most satisfactory in every instance. However one patient died a month after the operation one died of apoplexy, after thirteen months and one died of cacheura after eighteen months.

Eight patients are now in excellent health from one year to three years after the treatment They have been subjected to repeated cystoscopic ex aminations In two minute tumors were ds covered in the course of these e aminations but tere promptly congulated cystoscopically and have not recurred Two of the patients were treated too recently to warrant conclusions as to the end results One patient cannot be traced

If electrocoagulation had not been employed some of the patients would have require I total exstectoms to eradicate the disease an operation with an immediate mortality of 5 per cent and a mortality

thin the first year of 30 per cent

In the di cussion of this report Lavenant called attention to the general ineffectiveness of \ ray and radium therapy and the high mortal ty not only of total but allo of partial cystectomy stated that it is not necessary to open the bladder routinely for the application of electrocoagulation then accessible the tumor can be treated as ef fectively through the eystoscope. On mons differ as to whether this form of treatment is pall ative or cu ative. In some case, however it is followed by apparent cure for as long as five years Cures do not se m to depend on the type of the tumor ns they have been obtained even in cases of tumors which are fithe motimal grant type

LE I UR e pres ed the opinion that the larger tumors should al ass be treated by opening the bladder hecause her y currents must be employed and hechuse on account of the extensive sloughs

drainage of the bladder 1 necessary LII DEG ON MD

Gld ten A E and Abeshop e B S P st operati e U inary Incontin nce A Revi v of tie Literatu and Repot of Caes 1 h

Inco tinence of ur e is more common following prostatectomy than is suggested by reports in the I te ature and is more f equent after the perincal ope ation than after the suprapulic ope ation

In true or c implete incontinence there is urinary dribbling at all times. In parti lincontinence drih hling occurs on exert on bet een unnations or at the end of urinati n I continence may be tempo ra y or permanent and may va y in degree from time to time Tempo ary inc ntinence lasti g several days or weeks is rathe frequent after prostatectomy but respond ell to treatment. In the first fe v days of convalescence the patient should be in structed to sta t and st p the stream se eral times dur ng the act of urinat on and to oid at frequent intervals in order to improve the tone of the vesical sphincters Perm in nt incontinence is associated with some anatomic 1 or mechanical defect in olving both sph neters and 1 the result of operative mani pulat on Incontinence may be diurnal or nocturnal Diurnal incont nence is usually partial and tem porary and is manifested when the patient gets up It responds well to the apy

Goldstein and Abeshouse re ie the anatomy and nerve supply of the bladde and its sphineters. They state that it can be said with some degree of certainty that the spinal cord center for m cturition is in the lower part of the cord (lumbosacral region) and more or le s localized to separate segme tal areas the center for the bladder fill g mecha sm which controls the sphincter area being in the twelfth thoracic and first lumbar se ments and the center for the emptying mechani m of the bladder which controls the detrusor muscle being in the second third and fourth sacral segments. The sp. 1 path for motor impulses from the brain to the blad der is believed to be in the posterior part of the pyramidal tract of the lateral column

The bladder I ke the anus and uterus has a com bined voluntary and involuntary mechanism. In the bladder this mechan in is called the detrusor me chanism and is made up of a filling and empty ng system Both the filling and emptying mechanism consi t of an inhibiting (relaying) a d an e citator (contracting) element high are correlated The bladder like other viscera has a double innervation wherein impulses transmitted through a parasym pathetic system are not gonistic to those trans mitted through a sympathetic system. The fill ag mechani m is entirely involuntary. The emptyr g mechanism is partly involuntary and partly volu

The normal voiding reflex 1 initiated by a e sation of fullness which stimul tes the sensory nerves I the bladder The amount of urine neces sary to induce the desire to void is not constant but varies greatly in the same person and in diffe ent persons The determin ng factor is the intra esical pre sure rather than the volume of ur ne in the bladder The threshold of intrave ical pres ure i dependent upon the degree f irritability of the bladder wall Micturit on ensue only hen the sus tained contraction of the bladder vall has resulted in a certain degree of intrasesical tension

The findings of investigations seem to show that normal bladder closure is ma ntained by the i ternal vesical sphincter that when the internal sphi cter is rendered functionless by operatic intervention or long continued dilatation and stretching by intra vesical enlargement of the prostate the external sphincter is expable of maintaining bladder closure and that when e ther the internal retternal sphi c ter 1 rendered functionless normal u mation and bl dler closure can be obtained if the remaining

sphincter is normal

A disturbance of urinat on such as retent on or meontinence occurri g after sup apulic prostatect omy is practically al ays due to permanent injury to the external sphincter or to a mechanical factor interfering with the function of the external or in tern I sphincter such as a loose fragment of p 5 tatic urethral or hladder t ssue producing a ball valve obstruction or narrow ng of the lumen of the ves coprostatie onfice produced by stricture bar or canopy formation However the occurrence of such u favorable structural defects within the enucleation cavity has been greatly reduced by

recent advances in the technique of the suprapubic operation whereby the uncertainty of blind enuc leation with the finger has been replaced by accurate dissection in a clearly visualized operative field Hiemorrhage at the time of operation has been controlled more completely by ligation of bleeding wessels and by suturing the torn prostatic capsule and vesical wall than by trusting to the uncertainty of gauze nacks.

When moontanence follows a perneal operation it is always associated with an injury to the sphincteric musiculature about the vesical neck and posterior urethra. Such a complication should not occur as frequently as it does as the perineal removal of an enlarged prostate is essentially an extra urethral and extravesical operation wherein the hypertrophied mass is shelled out of its capsule both vesical

sphincters being left intact

The usual operative defect associated with in continence is a wide dilatation of both internal and external sphinicters accompanied by dilatation of the membranous and posterior urethra. The muscular components of the internal and external sphinicter are replaced by scar tissue. In the region of the internal sphinicter the usual prominence of the median portion is absent because of replacement of the injured muscles by scar tissue.

JACOB S GROVE M D

Susman M P Paget s Disease of the Glans Penis J College Surg As stral sia 1930 iii 282

The author reports a case which was diagno ed clinically as Paget's disease of the glans penis Biopsy was not obtainable

To date thirty five cases of extramammary Pagets disease have been reported in the literature In about half of them the disease affected the genitals

The nature of the condition is not known with certainty but in a case previously reported by the author the similarity of the lesion to basal cell

carcinoma was very striking

The case reported in this article was that of a man fifty six years of age who presented on the glans pens several vell defined areas with a red raw and glazed appearance which had been present for six years. The lesions resisted all forms of treat ment including radium irradiation. There was no sign of cancer in the body of the pens.

HENRY L SANFORD M D

## GENITAL ORGANS

Birdsall J C Torsion of the Testicle Pn syl

Torsion of the spermatic cord occludes the veins but does not completely occlude the arteries Belov the twist hæmorrhagic infarction occurs

The mechanism of torsion of the testicle is of two types—the extravaginal and the intravaginal. In the extravaginal type the entire testicular mass rotates so that the cord is twi ted in its extravaginal portion This is likely to be brought about by sud ben dislocation of an undescended testicle the cause being the force producing the dislocation or a sudden contraction of the cremaster. The intravaginal type depends upon a long and mobile or very narrow mesorchium.

In practically all cases a congenital malformation has been found—either imperfect descent or mis placement of the testicle or an abnormal mesorchium. The chief factors predisposing to torsion of the testicle are trauma and an abnormally long or narrow mesorchium. Torsion of the testicle has been known to occur four hours after birth. It may occur at any age. The exciting cause is usually muscular effort or strain.

The symptoms of torsion of the testicle are of extremely sudden onset A severe sickening pain is followed by rapid swelling of the scrotum and usually by prostration Torsion of a right intra habdominal testicle may simulate an attach of appendicitis Torsion of a testicle in the scrotum may be difficult to differentiate from acute epididymo orchitis. Tor sion of an ingiunal testicle is frequently confused with strangulated hermis.

The treatment of torsion of the testicle is orchidectomy. Detorsion may be done when an early diagnosis is made but may be followed by suppuration or atrophy. Forsion of the other testicle may be prevented by everting the sac and suturing the testis to the scrotum.

The author reports four cases

ANDREW MCNALLY M D

#### MISCELLANEOUS

Swick M Intravenous Urography by Means of the Sodium Salt of 5 Iodo 2 Pyridon N Acetic Acid J 1: 1/4 49 103 to 1403 Jaches L Intravenous Urography (Swick Meth

od) J 4m 1f 1ss 193 xcv 1409

SWIGA reviews the history of the intravenous use of 5 nodo 2 pyridon N acetate of sodium as a me dium for urography When administered intravenously this drug is excreted in the unne with no chance in its chemical formula

The dose for adults 1, 40 gm of the drug dissol ed in a sufficient quantity of doubly distilled water to make approximately 100 c cm. This solution is fil tered and then sterlized in a water bath for balf an hour or in the autoclave at a pressure of 15 lb for twenty five minutes. After complete sternhaution the solution is injected intravenously with the use of syringes and needles sterlized in distilled water.

The injection is done in two or three stages at interval of from three to five minutes. The first roentgenogram is usually taken from fifteen to twenty minutes after the last injection. The time at which subsequent roentgenograms are made depends upon the amount of secretion that is visualized in the first roentgenogram. As a rule the subsequent roentgenograms are made at intervals of twents five minutes hut when functional disturbances are pres

ent they are made at intervals of from one to three hours The clarity of the roentgenograms is im proved by compress on obtained by the application of an air inflated halloon over the lower abdomen for from five to ten minutes prior to and during the

exposure

Dosages as low as 20 gm and as high at 60 gm have been employed. For children, the dosage of a 40 per cent solution is as follows thirteen years of age from 25 to 30 gm nine years and up 25 gm six years and up 20 gm four years and up 16 gm ti o years 14 gm and six months from ro to 12 gm

During the injection tl e nationt experiences thirst and generalized warmth involving particularly the face and the region of the bladder. In some cases there may be nausea or comiting and occasionally there is pain along the course of the yein injected Para enous infiltration causes pain but no necrosis

Intravenous prography is of great aid in cases in which instrumentation is contra indicated. It is of ass stance especially in the diagnosis of conditions of the urinary tract in children and in follow up studies in cases in which ureteral transplantation

has been done

In cases of uramin the method is contra indicate l Therefore its use should be preceded by a determination of the blood urea. The drug does not seem to have any deleterious effect on pulmonary tubercu

For pyeloscopy the method is feasible only v hen the density of the excreted substance is sufficiently

great When function is poor the results of ovelos

copy vill be correspondingly poor The author emphasizes that intravenous urog raphy with proselectan does not replace cystoscopy and retrograde pvelography Absence of the opaque med um in the urinary tract may be due to a tem porary decrease of renal function not dependent upon a pathological condition. It is therefore ad visable to check the findings of urography by evs toscopy a study of the blood chemistry and dye excretion tests

JACHES describes the method used by Swick He states that the patient should be kept on the table for at least an h ur after the injections and ad ocates compression during the exposures As a rule the best rountgen results are obtained fiteen thirty five and si ty minutes after the last injection. After sixty minutes good outlines are obtained only in cases of delayed renal function with obstruction Therefore it is important to have each flm de veloped immediately in order to determine how long the taking of roentgenograms should be continued In some cases the lower ends of the ureters may be visualized better by having the patient empty the bladder

The use of uro electan should be preceded by a study of the blood chem stry and indigo carmine and pl enolsulphthalein tests Intravenous urography does not el minate the retrograde or cystoscopic method of nyelography This is true particularly in

cases of impaired renal fun tion

The advantages of the method described are that it intensifies the kidney shadows renders in tru mentation unnecessary shows the entire unnary tract including the bladder at one time discloses anomalies of the urinary tract such as double ureter that may not be sho n by the cystoscopic method is not rendered unsuccessful by stricture of the ureter eliminates artefacts and shows not only the anatomy of the urmary tract but also its function

In conclusion the author emphasizes that mere non visualization at a given examination does not necessarily denote permanent renal damage

I Syp by Rifter M D

Kutzmann A A A New Urographic \tedium Emulsified Campiodol in J S t

Campiodol is an approximately 44 per cent mix ture of elemental rodine with rapeseed oil When used for urography it is diluted with distilled water and acacia so that the percentage of iodine is equiva lent to that of the sodium todide solution used for roentgenography The emulsion is miscible with water non toxic non irritating and mert. In hutz mann's opinion it is an excellent medium for uro graphic study J SYDNEY RITTER M D

Rinaldi R. Fs ential Ilmmaturia (La quest ne d lle m tune e en al ) freh ! l d u l 1030 11 624

The author discusses the various classifications of

hematuria and reports two cases His first case was that of a noman twenty two years of age who had been passing blood stained urine for three months. There were no other symptoms Rest in hed seemed to increase the bleeding The patient was gro ing pale and losing strength She said that she had contracted syphili about a year previously and had been treated by subcutaneous injections for about to months Her Wassermann reaction was 4+ and she had a strongly positive tuberculin reaction. There were no gonococci or tubercle bacilli in the urine and inoculation of urine into guinea pigs was negative

Symptomatic treatment with calcium and various coagulants had no effect whatever but following an intravenous injection of arsenobenzol the harmaturia stopped within twenty four hours. It did not recur during arsenobenzol treatment. The patient gained weight and 1 as discharged with a diagnosis of hamaturia from syphilis About a year later she reported that the harmatur a had recurred and she had been subjected to nephrectom; on the basis of a diagnosis of tuberculosis of the kidnes Histological examination confirmed the diagnosis S nce the of eration she had been free from hæma

The second case was that of a man thirty seven years of age who had always been well until about two months before his adm ssion to the hospital when he began to have attacks of coll ky pain chiefly on the left side. The pain was almo t un

endurable and was very little affected by sedatives Examination of the urine showed only traces of albumin and nothing else pathological. A diagnosis of renal neuralgia was made and denervation and decansulation were performed on the left kidney.

The pattent was discharged at the end of two weeks apparently cured but within a month the pain recurred. It was then more severe than before and associated with paroxy small hematura. Cysto scopic examination showed that the blood came from the right kidney. Bacteriological examination of the urine was negative. During the attacks of pain there was a transitory ery thema of the trunk and for a short time there was an urtication derup tion. The findings of examination of the blood were normal. The bleeding and coagulation times were normal and the Wassermann reaction was negative.

A probable diagnosis of tumor of the right kid ney was made and nephrectomy was done. The Lidney was small and fixed by numerous adhesions. The patient died in collapse on the tenth day

Histological examination showed no signs of tumor and no inflammation but revealed enormous dilatation of the peritubular capillaries and intra glomerular hæmorthage. There was blood pigment in the vessels and in the connective tissue which in places had undergone sclerosis.

The sudden beginning of the disease its parox ysmal course the hematurna and the terminal collapse suggested anaphylavis but no cause for anaphylavis could be found. There was some in testinal disturbance but it was not enough to cause digestive anaphylavis. The author concludes that the condition was probably. Frank a naphylactoid purpura.

AUDREY G MORGAN M D

# SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Genner V and Boas H A Case of Gene alized Osteltls Delormans (Paget) vith See ndary Malignant Degeneration Icla ad I 93 398

Folloving a brief description of the elin cal charac teristics of osteitis deformans hased on the first case reported by Paget the authors review the complex tions and the nathologico anatomical and roent genological changes associated with the disc se the various theories as to its etiology an I the diff culties in its diagno is from other affections of the bones notably Recklinghausen's osteitis f brosa and certain bone tumors

They then report a typical case. Their patient as a man fity one years of age whose condition was of about thirty years standing. Its course had not been attended the any d turbance of the general health or with the patient's f tness for a ork It as disco ered only when the patient as admitted to the hospit I to be treated for a s velling of the right shoulder the result of an injury sustained a fer weeks previously Roentgen examination slo ed that the s elli g was due to a malignant neoplasm in the osseous ti ue and thet the patient as suffer ing from a generalized form of osteitis deformans (Paget) with typical deformity of certain bones especially those of the lower extremities (saher legs) De th occurred a fe weeks later from metastascs

Autops) confirmed the clinical and r entgenologi cal diagnoses. It revealed e tensi e sareomatous dest ucti n of the ght scapula and clavicle and parts I destruct on of the head of the humer s by

large hæmorrhag c tumor masses

The patient allo suffer d flom syphil's required when he was eighteen v ars old This condition had been poorly treated the Wasse mann reaction remai ing stro gly p sit

Anothe feat re f the ca e was very pronounced deafness during the last fe v m ntb of the p tient s life evidently the result of the otosclerotic processes characteristic of the osteiti

Franceschini P and M gliulo A Tte St ueture and G owth of F e J int Bodies (Sop st tt a l c m t d liben) 1 11d / 93 tc1

The authors review the literature on free joint bodies and report a ca e of free body in the knee In the case reported the joint body appeared four years after a fall on the knee At first it was the size of a grain of co n but when it was removed th rteen years later t was found to measure 75 by 4 by 13 mm Ti e patient recovered from the oper ation for its removal without complications and at the end of a month was able to resume military ser ace Seven months after the operat on the knee was of normal appearance and there was no trac of exu late or periarticular infiltrat on

Hi tolog eal examination of the cartilage revealed prohierative phenomena hich had led to the for mation of a large amount of forecartil ge. This finding supports the vie that the synovia posse ses trophic properties. The authors believe that the onset of the production of fibrocartilage is due to a pecul ar development of the elements of the endos teum of the medullary spaces or the constituents of the bone marro v MARTI I DI COLA M D

Middl ton D S The Patl closy of Concenital To ticolli B t J S r 030

lifter a clinical and pathological study of ninety cases of so called congenital torticollis Middleton records findings which support the 1 charm c theory of the formation of that deformity and refute the of ler theories namely the congenital Pereditary birth 1 jury infective myosit and nervous theories

The ischamic theory first suggested by Mikulicz as later supported by Nos Jos erand and Vian nay the investigated the circulatory system of the ternomastoid muscle and sloved the po sbility of interference ith its blood supply during delivery It is the venous obstruct on which causes the true hamorrhagie infarct described by Kempi and Brooks and ge es rise to the sternomastoid tumor Middle ton claims that this pathological format on is pla mary in all cases of congen tal torticolli He be he es that during del very there may be sufficiently prolonged venous obstruction in the sternomasto d muscle to cau e f brosis Records sho that con gen tal torticollis occurs most frequently in first born children and those d l e ed after a long ba d

Pathological changes in the skeleton due to the influence of co genital tort coll's such as e ostos of the elavicle shortening of the face on the side of the affected muscle and a tendency of the eramum to grow or lean to ard the affected side CAR C V B TEMAN M D are discussed

Helisios A Duplay's Disease (ZrK t dr Dplychnkrkhet) Md kln 93 1 309

Scapulohumeral peri rthritis is characterized by (r) him tation of abduction and back vard move ment of the arm ( ) a por t of tender ess to pressure corre I ond ng to the postion of the subdelto d or subscromtal bursa (3) an inconstant roentgen sh d ow usually in the reg on of the greater tuberos ty of the humerus due to the deposition of calcium salts in the bursa and (4) fever and swelling in the early stages and atrophy of the deltoid muscle later

The exciting causes of the condition are infection

and abnormal demands on the joint

In the acute stage the treatment should consist of the administration of salicylates and wrapping of the joint in cotton dressings. After subsidence of the pain active and passive movements the application of heat diathermy and non specific protein therapy are indicated

Of twenty four patients whose cases are reviewed hy the author twenty two were cured and two left the hospital before completion of the treatment

R Gutzeit (Z)

Seifert E Painful Stiffening of the Shoulder (Ueber die Humeroscapular Perlarthritls schmerzhafte Schulterversteifung Penarth itis hu meroscapulans) 1930 Leipzig Kabitzsch

Seifert discusses painful stiffening of the shoulder the primary cause of which is not in the humero scapular joint. He first calls attention to the fact that the mechanism of motion includes not only the humeroscapular acromioclavicular and sterno clavicular joints but also the bursal mechanism of two pseudojoints called by Fick muscle joints One of the latter facilitates movement between the chest wall and the anterior surface of the shoulder blade which is covered by the subscapularis muscle The other is formed by the external surface of the capsule of the humeroscapular joint the undersur face of the deltoid muscle and a part of the pec toralis major muscle Passing over this periarticular bursal structure are the avillary nerve and the pos terior circuniflex humeral artery. Therefore in this region i frequently to be found the original site and the cause of painful stiftening of the shoulder When traumatic and infectious conditions of the humero scapular joint can be definitely excluded the con ditions remaining to be ruled out are acromioclavicu lar arthritis humeroscapular periarthritis in the restricted sense of the term and subdeltoid sub acromial and calcareous bursitis

Acromioclavicular arthritis is characterized by a sharply delimited area of tenderness to pressure at the site of the articular space and by pain radiating to the shoulder on movement Chronic arthritis shows typical bone changes in the roentgenogram When the diagnosis remains doubtful an injection of novocain into the joint cavity will clear it up

Acute inflammatory conditions demand immobili zation and perhaps therapeutic injections of novo cain In chronic arthritis resection and the interpo ition of fat or fascia may be considered. Seifert has seen good results from treatment with sufrogel

Humeroscapular periarthritis was first described by Duplay in 187 and its syndrome has become gen erally recounized. It runs its course chiefly in the described muscle joint which forms the subdeltoid bursa Even a slight disturbance of this hursal mechanism must result in notes orthy disturbances in the movements of the shoulder blade. Hæma tomata later adhesions and the formation of cica tricial tissue may lead to connective tissue ankylo is The disturbances often develop relatively late after an apparently harmless contusion of the shoulder As a rule the physician believes that the cause is in the shoulder joint as the differences between the soft friction rub of the capsule and the harsh bony scrap ing sound of arthritis are not generally known Over exertion and ankward movements with tear ing of the capsule or the muscular attachment may have exactly the same results. In one third of the cases seen at the Heidelberg Clinic a history of trauma was lacking

Abduction is the movement most markedly lim ited and forward movement of the arm is least affected Contraction of the muscles may cause abnormal elevation of the head of the humerus and in rare instances may result in luxation of the head

upward and backward

In early cases immobilization in abduction is in dicated as there is great danger of adduction con tracture The older the patient the earlier careful

movement and massage may be begun

In discussing subdeltoid bursitis Seifert says that anatomists do not yet know exactly the tissues of origin development sites or number of the subdeltoid bursæ or their relation to each other or to the shoulder joint. Trauma and infection may result in inflammation of such burse Immobilization the application of heat and the administration of salicylates bring about relief of the symptoms in the course of three or four weeks With regard to cal careous bursitis Seifert says that calcareous deposits in the periarticular tissues have no connection with the bursæ Even operative exposure and histological study often show no connection Very frequently such deposits are bilateral but cause symptoms on only one side. This is difficult to understand if it is assumed that frictionless functioning of the bursal surfaces is necessary for unhindered motion. If conservative measures do not bring relief operation is to he considered I LENZ (Z)

Rendu Obstetrical Paralysis of the Upper Ex tremity (Paralys e obstét icale du memb . su per eur) Rev d'orthop 1930 xxx 11 459

Obstetrical paralysis of the arm occurs about once in 2 000 births. Its most frequent causes are prolonged labor or dystocia demanding the use of for ceps and ahnormal pre entations necessitating ma rupulation

The condition is generally recognized at birth. A certain laxity of the shoulder is noticed and the arm hangs limp at the side of the trunk in internal rota tion with the elbow extended and frequently with the fingers fleved There are no skeletal abnormali The X ray findings are negative Electrical examination is very difficult and unsatisfactors

The following clinical varieties are distinguished I Superior root paralysis of the Duchenne I'rb type This is the most common variety

2 Total paralysis This is very fare

3 Inferior root paralysis of the Klumpke type 4 Atypical forms-mixtures of forms As a rule these have a good prognosis

5 Forms associated with ahnormal embry ological

development

The author explains the deformities and describes the vicious attitudes functional and tropbic disturb ances and electrical reactions which follow these types of paralysis He emphasizes that in the roent gen examination it is necessary to roentgenograph both shoulders in the same position for comparison

The patholog cal changes associated with obstet rical paralysis vary from bloody infiltration with ordema to nerve stretching lengthening or runture In some cases the cerebrospinal fluid contains blood The changes in the skin cellular tissues aponeuroses muscles and tendons are secondary. In rare cases there are changes in the bones of the arm with subluxation epiphyseal separation and interference 1 ith growth

The author revie s the theories regarding the

causes of the nerve lesions

In the diagnosis it is necessary to differentiate pseudoparalysis true paralysis due to other than obstetrical causes and the complications lound in the late cases with contractures and secondary de

The treatment must be directed toward care of the nervelesions and the prevention of deformities. The author questions the value of early operative treat ment of the ner elesions For the prevention of deformities he advises the use of a celluloid and plaster corset or wmetal splint to hold the arm abducted and externally rotated In the surgical treatment Platt's and Sever's operations have proved accept In some cases tendon transplantation has KELLOGG SPEED M D been done

#### Blatne E S Spondviltis Traumatica Tarda (Kuem mett a Dia ase) R d logy ros

Spondylitis traumatiea tarda vas first described hy kuemmell in 89r. It may result from a com parati ely slight injury not calling for med cal atten tion. The pain following the injury subsides only to recur months or yea slater \ ray examination dis closes a partially collapsed vertebra which is de creased in size and usually tapers anteriorly shrinkage is probably due to a disturbance of the nutrition of the ertebral body resulting in the slow absorption of bone

The lesion is frequently discovered accidentally Its demonstration requires a lateral roentgenogram The di ability is usually bety een 10 and 15 per

The prognosis is good although the symptoms

are of long duration

The pain and bor e destruction are much less than in tuberculous spondylitis and there is only a slight if any gibbus Compression fractures can be ruled out hy a roentgenogram taken imme liately after the injury The author reports ten cases MAURICE L DALE M D

Roederer G The Pathog nesis of the Kuemmell Verneuil Synd ome (\p opos d | p tho 6 edu syni ome de Kuemm II \ rne | ) B II et mém S c and P 1930 X 1 527

The Luemmell Verneurl syndrome was known long before it was described by e ther Kuemmell or Verneud In France it was studied by Bonnet in 1857 and by Sarrazin in 1859 In 1881 Schede call d attention to softening of the vertebra secondary to trauma However Luemmell was the first definitely to distinguish the three stages of the syndrome Of the various terms which have been applied to the condition traumatic spondy losis is probably the most appropriate

The course of the condition is very characterist c In injury to the hack often gu te in ignificant is followe I for a time by local pain and occasionally by slight hlad Jer disturbances Apparent recovery then results but after from two to six months the pain recurs in the form of localize i pain girdle pa n and pain radiating along the nerves originating in the affected segments which become increasingly more se ere and a rigid kyr hosis or gibbus appears

is an injury to the back may be followed by numerous other spinal affections with a similar his tory the diagnosis must be made with caution For the diagnosis of Auemmell Verneuil syndrome three factors are necessary trauma a typical history and a characteristic roentgenogram. The roentgeno ram must show a nedge shaped deformity of two verte bræ llo ever the only absolute roentgen eritena are a negative rountgenogram at the time of the injury and a positive roentgenogram in the third stage of the condition In only a few cases on record

have these criteria been available

There are two explanations of the syndrome According to one the condition is the result of According to the other unrecognized fractures there is a secondary flattening of the vertehre It is well known that even severe vertebral fractures may he unrecognized and cause delayed symptoms Roederer reports two cases of vertebral fractures that were at first not recognized and state that un louhtedly a certain percentage of cases in which a diagnosis of Luemmell \ erneuil syndrome is made helong to this group I rom observations made on the extremities it is known that osteoporosis may follow traumatism The resorpt on of bone probably follows the prolonged hyperamia The fact that in many cases presenting the Lucmmell Verneuil syn drome a considerable portion of the spine is involved shows that the initial lesion is not a fracture Ma ie attributes the deformity to te ring of the anterior ertebral I gament with subsequent retract on Cases have been reported which showed roentgenographic signs favoring this view

It is sometimes imposable to be sure that the osteoporosis is not caused by tuberculosi following the injury The author has obtained cures without being able to determine whether the condition was the Luemmell Verneurl syndrome or tuberculosis Congenital anomalies may al o cause confusion

Roederer concludes that there is more than one valid explanation for the pathogenesis of traumatic spondylosis. He reports two cases of the condition supplementing his report with roentgenograms

ALBERT F DE GROAT M D

Perrottl G Remote Results of the Suboccupital Injection of Lipiodol in Pott s Disease with Paraplieda (Su li esti lontam dell'iniezzone sot toccipitale di lipiodol nel morbo di Pott con para plejia) 4 nn stol di chir 1930 17 9 6

The case reported was that of a man thirty two years old. Six years after the suboccipital injection of lipiodol the patient presented a syndrome of medullary compression and the lipiodol was found to he still present at the former site of the Potts disease. There was no sign of recurrence of the disease. The vertehræ previously involved had hecome transformed into a hypercalcified osseous column. As the lipiodol had not hecome absorbed in six years the author believes it will probably not be absorbed.

Marini J. Dr. Cola. M.D.

Rocher H L and Roudil G Functional Disturb ances of the Hip and Sauro Hiac Joint (Covo patine et sacrocovopathie pithiatique) Bordea ve chr 1930 No 3 217

The neurologist psychiatrist and orthopedist often have occasion to collaborate. As Charcot said hysterical arthropathies may so closely simulate organic arthropathies that the diagnosis is some times very difficult. The authors report seven cases of functional arthropathy. The patients were six females and one male ranging in age from thritten to thirty years and giving a history of trauma. When careful physical examination and roentgen ray studies revealed no pathological changes treatment by suggestion. Swedish massage and exercise was given All of the patients mide a perfect recovery.

Arthropathy is often the first manifestation of hystem Functional arthropathy usually follows a slight trauma associated with emotional shock. According to Hartenherg the hasis of the hysterical personality is excessive imagination. In most cases of functional arthropathy, there is an interial of contemplation and autosuggestion between the occurrence of the trauma and the appearance of the symptoms.

Functional arthropathy is characterized by pain contracture and poor posture. Sometimes it is accompanied by sensory disturbances. As a rule the pain is localized on the side of the involved limb at the site where the subject thinks he was injured. The contracture is very variable in its intensity and location. Extension of the contracture is an important indication of the functional nature of the condition. The abnormality of posture is almost all ways a position of adduction. The lameness is due to the deformity and the pain.

In the diagnosis care must he taken to rule out organic changes and attention paid to hysterical manifestations. The diagnosis is particularly diffi cult when hysteria is associated with organic defects. In the treatment it is necessary to combine psy chotherapy with physical therapy.

JACOB E KLEIN M D

Henderson M S Injuries to the Semilunar Cartilages of the Knee Joint Surg Gynes & Ob 1 1030 h 720

The anatomical structure of the knee joint is of a more or less composite character although chiefly of the hinge type. During action there is a constant change of surface contact for weight hearing he tween the femur and the tihia which is not seen in true hinge joints such as the elhow and the ankle. The most common cause of derangements of the knee is injury to a semilunar cartilage. The internal semilunar cartilage is injured more frequently than the external because if it is caught between the in ternal condyle of the femur and the head of the tibia and the act of extension is continued it cannot slip out of the vise like hold being firmly anchored at its periphery to the internal lagament

Henderson divides the lesions caused by injury to the internal semilunar cartilage into 4 main types

V.

A tag like flap of varying size which is split off from the anterior portion and hangs free with its base attached to the posterior mesial portion of the anterior third

2 A pedunculated flap of the same type in the middle thord of the cartilage which is sometimes doubled back on itself and pointed posteriorly. This is a difficult type to see at operation and may he renduly missed. Such a flap may he worn into an ear shaped tag attached hy a rather small short pedice. It is incarceration causes sharp severe pain but is usually released readily hy a vigorous kick or two and is not followed hy swelling or disability.

3 The bucket handle or loop type of lesion This causes the most constant symptoms and as a rule

is readily diagnosed

4 A pedunculated flap in the posterior third of the cartilage. This often gives rise to bizarie symptoms. As it is generally impossible to see such a flap through an anterior incision the lesion is not discovered until the cartilage is removed or a posterolateral incision is made to explore the posterior portion of the cartilage.

In order to correlate the experience of a number of years the author reviewed 356 cases in which 261 cartilages were removed at the Mayo Clinic In many cases the patient was seen again a consider able time after the operation the outcome heing definitely ascertained. In others the end results were determined by correspondence with the family physician or the patient. The results in 38 cases are known.

The symptoms were chiefly subjective therefore in industrial compensation cases one must be on one signard. The patient saccount of the happenings at the time of the injury is often vague either he cause of the rapidity with which the various events.

causing the injury occurred or becau e of lack of

The diagnosis is not always easy. The main factors to be considered are (i) an injury to the knee generally indirect and sustained during an active pursuit and (2) recurrent attacks of disability pain and s elling with intervals of complete free dom from both subjective and objective symptoms.

An accurate di gno is is es ential before operation is performed on the knee joint because a free and sati factory exploration of the cavity of the knee cannot be carried out. The results of surgical treat ment are good. In 77 per cent of the cases revie ved complete relief of the symptoms was obtained. In some cases there may be a certain degree of permanent larness in the j int due to injury of the crucial ligaments at the time of the accident and in no way attributable to the operative procedures on the men sci In the cases revie ed the cure fol lowing removal of the external semilunar cartilage did not quite equal those obtained by removal of the internal cartilage. The inc dence of cure is reduced by inclusion in the calculation of ca es in which no definite lesion was found at operation. Of the latter group a cure was obtained in only 37 per cent

The most common fracture or tear found was of the bucket handle or loop type which constituted more than a third of the series. Laghty ave fractures of the stype occurred in the internal cartiage and 5 in the external cartilage. The incidence of this type of a cuture as higher than that given in most published statistics. In 78 ger cent of the series a fracture 4 tear or a distinctly loose cartilage was

present

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Luw s The Surgical Tratment of Obstet scal Fa alyst (Lt i me t i ruge i dei pa aly i tet 1) J d i 93 x 6

Lau ers d fines obst t ical par lysis as root paral visis of the b ach al plexu due to ob tetrical trauma It occ rs ab ut once n 2 000 feli e ies. Three types

e h tingui hed

1 Pa tial superor 1 a alysis due to lesions of the

1 ter rb a ches I the I th nd si theerical roots

2 hi h invol es th deltoid bicep and brach alia

2 I art al infer or jaraljsis due to lessons of th seventh and eighth e r ical and first dorsal roots which invol es the muscles if the thenar and hypo thenar eminen es the inter sseous muscles and the flexor

3 Iotal yaralysis of the arm and shoulder The bist troal trums consists in stretching or rupture of the ner ero is Frrjure of the ner ero tools a force of bout 25 kgm; in excessing. Superior paralysis occurs in ceph lie pr sentations when the head is angulate lin the diseng gement of a shoulde Inferior paralysis occurs in breech presentations from teact on on it er after coming he d and arms. The pathological lesions are of 3 types

r Distention of the root from slight traction which is followed first by degeneration and later by complete regeneration

2 Sul neurolemmatous rupture with retraction of the axones and their replacement by impermeable fibrous tissue

Complete rupture

The disgnoss is usually based on loss of mobil to both active and reflex in the pirt in olved followed by atrophy of the muscles. Electrical eram in tonis important. When the result is normal recovery follows in from two to four weeks. When the reaction of degeneration is partial spontaneous recovery may occur in from seven to eight weeks but when the reaction of degeneration is complete the partlyss is permanent.

The treafment may be surgical with eni to-end approximation of the torn roots and the removal of excatricial tissue. Good results have been obtained from this procedure in from 30 to 83 per cent of cases. Operation performed before the seventh month avoids contracture but operative treatment is quite formidal le and usually must be supplemented by orthopedic procedures on the mucles and

f gaments

In the cases of newborn infants the arm may be immobilized in abduction an i external rotat on a th flevion of the forearm at a right an le 1 the ead of one or to o months epiphysical separation mu the ruled out by 1 ray examination. Further treatment def ends on the electrical reactions and the type of the paralys 3. The results of operative treatment are less favorable in inferior paralys; than in super or paralys.

The author describes the operative techniquing detail an Iroports briefly 7 cases of superior paraly is and 2 cases of inferior paraly. So of 7 cases in which the pletus via 5 found intact 4 were treated vib varying success by the removal of cictine al bands corepressing the nerve roots. In 3 case good results were obtained by of ening the neutrienma and free long the nerve bundles well beyond the 1 mt is of continous.

Janik A The Results fir atment f Tub cu f is of th Bones and Joint (B h nd' g gebn e de An he u d Gelenkt b rk lo ) G h d 93 v 6

The author reviews the results of con ervalt e and operative treatment of tule crudious of the bones and joints at the clinic of Luke's duing the period for 1930 to 938. I roper treatment was very difficult because of the fack, of modern appliances in the chinical institutions and because on accout? of their lack, of education the peasants did not read by a cept treatment shich is a painful or r quired protreatment which is a painful or r quired protreatment which is a painful or r quired protreatment.

Bone foci located at a d stance from a joint is in the region of the trochanter the rib the sternum the radius the ulna the calcaneum and the femur

vere removed by one ation

In articular tuberculosis resection of the joint was absolutely avoided when the patient was a child. In the cases of adults it was done as the procedure of choice in the treatment of the knee and elbow next most frequently in the foot less frequently in the shoulder and wrist and still less frequently in the hip

In all 628 patients were treated Of the cases of tuberculosis of the spine the condition bad heen present longer than three years in 30 per cent. Of the 1 6 patients with tuberculosis of the spine or were treated conservatively and 35 surgically. Thirty six per cent were cured 14 per cent (total 50 per cent) were benefited 17 per cent were not benefited and 33 per cent died subsequently. The results were less favorable than those of surgeons working under more satisfactory conditions (Aisch Garre). In the cases in which the condition had been present longer than six years a cure was obtained in barely 25 per cent and the subsequent mortality was more than 40 per cent.

It is noteworthy that the mortality was highest (40 per cent) between the tenth and fifteenth years of life decreased considerably after the fifteenth year and then gradually increased again. The results were best in cases of tuberculosis of the lumbar portion of the spine next best in those of involve ment of the cervical portion third best in those of involvement of the sacral portion and least favor able in those of involvement of the thoracic portion Of the patients with involvement of the lumbar spine 46 per cent were cured 15 per cent were benefited 8 per cent were not benefited and 81 per cent died subsequently Of those with involvement of the cervical spine 40 per cent were cured 40 per cent were benefited none was unbenefited and 20 per cent died. Of those with involvement of the sacral portion of the spine none was cured so per cent were benefited 50 per cent were not benefited and none died. Of those with involvement of the thoracic portion of the spine 33 per cent were cured

7 per cent were benefited 24 per cent were not benefited and 36 per cent died Of the patients with suppuration 13 per cent were cured 13 per cent were benefited and 18 per cent were not benefited

Of all operative procedures the original operation of Albe was preferred. When this operation was performed a cure was obtained in 50 per cent of the cases and the subsequent mortality was 31 per cent. The Albee operation is indicated for adults who show no acute symptoms. In such patients, the presence of an abscess is not a contra indication. Of the I olish surgeons. Schramm. Ostrowski. Wierze jewski, Jurasz. and others favor this operation but at the Cracov Clinic it is not regarded very highly.

In tuberculosis of the hip joint the results of early and late resection as well as those of conservative treatment were poorer than in tuberculosis of other joints. The conservative orthopedic treatment gives relatively the best results and is therefore u ed in most cases at the Luów Clime. The number of

cases of this condition which are reviewed was 75. Fifty eight were treated conservatively and 17 were treated surgically. Of the patients who were treated conservatively 41 per tent were cured 27 per cent were benefited 18 per cent were not benefited and 23 per cent died. Those who were regarded as completely cured did not always remain free from sequelse. In the group of fatal cases death usually occurred before the third year of observation. The average duration of the treatment was two years of the patients with suppuration 36 per cent were cured 21 per cent were benefited 7 per cent were not benefited and 36 per cent deed

In the surgically treated cases resection of the joint was done only 5 times and its results appeared to be unsatisfactory. Twenty per cent of the patients were cured and 20 per cent were benefited but 40 per cent died subsequently. Only severe cases were operated upon. Arthrodesis was done 4 times. Observations on the results of this operation are still moomplete but from those so far made it appears that this procedure may be used more often than heretofore.

Of 74 cases of tuberculos: of the knee joint 24 per cent were treated surgically. Of the patients who were cured 48 per cent were treated conservatively and 55 per cent were treated surgically (resection). Of those who were benefited 28 per cent were treated conservatively and 18 5 per cent were treated conservatively and 18 5 per cent surgically. Of those who were not benefited 78 per cent were treated conservatively and 18 5 per cent surgically. Of those who died subsequently 6 per cent were treated conservatively and 7 5 per cent surgically. The operative treatment averaged four months. It was noteworthy that of the patients who reported their condition as being entirely satisfactory after the treatment 35 per cent had been treated surgically. In the case of the knee resection was the procedure of choice. The late results and function after this procedure appeared to be very good.

Of 104 cases of tuberculosis of the ankle 35 per cent were treated surgically and 65 per cent con servatively. Of the patients treated conservatively 42 per cent were cured 32 per cent were benefited 20 per cent were not benefited and 17 per cent died. The operation of choice was enucleation and atypical resection. The ostalus which was most frequently the source of the joint infection was almost always removed. Enucleation of this bone was avoided even in the cases of children because of its poor results.

The cases of tuberculosis of the shoulder and wrist are excluded from thi report because of the lack of a sufficient number of replies to the follow up questionnaire

Of the cases of tuberculosis of the elbow resection was done in 30 per cent. Of the patients who were cured 42 per cent were treated conservatively and 20 per cent by resection. Of those who were bene fited 21 per cent were treated conservatively and 20 per cent by resection Of those who where not benefited 16 per cent were treated conservatively and 10 per cent by resection Of those who died all were treated conservatively

These statistical data show that the relatively unsat sfactory results of treatment especially on servatic treatment would doubtless be consider ably imprived if suitable facilities and special institutions similar to those in other countries vere available.

Radick K R sults of Ope ation for Osteochon dritis Dissecans (Ope to gbselen Ost hodrt d cans) Bi ki Ch 193 el

The author resiens forts two cases of joint mice treated surgically at the Keenigsberg Clinic discussing especially the functional end re ults. In the teatment of the knee joint Payrs 5 incision was usually employed and in the treatment of the elbow joint. Lae ven's median incision through the bireps tendion and the brachial muscle. The bed of the loose body was touched only when it presented roughness or outgrowths of cartilage on the margin. Under uch eircumstances the surface was v product to usly smoothed off but nothing more was streeting.

Eath movement after the operation is extremely important. The success of the operation is deter mined by prolonged and intensive after treatment controlled by the physician. Subsequent e anima t is show that a joint operated upon for osteo chondrist adsecians requires at least a year to recover its full functional ability. The strength of the flected e tremity, a usually slow in returning being not regained completely until long after there is full m bully. With increasing strength the muscle very gr dually re acquires its former size. When an a erage per of it to 9 cars not difference are to be noted in the musculature or strength of the extentive she in the into its fire from symptoms.

Roe teen examin tions sho the arth fur deposits high a e f und chilly in the bed of the 1 nt body do not all as exuse symptoms o limitation of mit on Even p is requiring eons detable ertions in the presence of such changes to the arthur of the discussion possible in the presence of such changes the energy of the properties of the prop

In none I the cases revie ed were extensive changes found in the late e amin tions

The size of the incision in the joint is of secondary importance in the ult mate function. Large in cisions are to be piefered to smill incisions at they give better eight pure and therefor facilitate the operation.

The knee 10 nt as affected in 30 per cent of the cases reviewed and the elbo in 6 per cent of the cases of 10 nt mice in the elbo the results were very good in 70 per cent good in 22 per cent and poor in

8 per cent Of the cases of joint mice in the knee joint the results were very good in 60 per cent good in 10 per cent and poor in 30 per cent

L Descrit (Z)

H e The Coxa Vara of Ad lescence (L c 2 a d tad lescen ) Ren doth p 03 1 307

Following a review of the theories as to the cause of cora varia of adolescence the author discusses the clinical roentgen and pathological findings and the diagnosist treatment and prop ossis of the condition. He compares the cova varia of adolescence with the cova varia of infants and vith the symptomatic cova varia of nickets tuberculosis osteomyelitis and trauma.

The cota vara of adolescence is a justicapital lesson which decreases the angle between the neck and head of the femur and is manifested clinically by external rotation of the leg pain and interference with the movement of the hip joint. It occurs with out previous writing between the ages of twelve and eighteen years the period of greatest growth. It terminates in changes in the shape of the head of the femur narrowing of the attitudar space of the hip joint which is eight in the rooms deriffer of the hip joint which is eight in the rooms grown and imitation of the movements of the hip joint. It is to be considered in epiphyseal separation or a subcapital fracture and treated as such

After from t velve to eighteen months the pain subsides and the cb ld no lo ger complains of fatigue after walking but the external rotation of the leg

tends to persist

In eases in which specimens have been removed
and studied it has been found that the coxa va a is
repaired by bony callus sufficient to eover the d
placement of the slipping head. P eudarthrosis has

ne er been found

I reventive treatment is probably alueless but at
the period of onset (one month being arthiranly
shosen as the time required for siding of the head on
the neck and the de el pment of the clinical main
testations) traction in abduction is advia table. When
separat n at the piphysis (epiphysicis) so
cocurred the treatment of choice is a trian
ection treatment of choice is the control of the

After cota vara has acquired a fi ed state with per of the neck cannot be changed by tract n but f roble reduction after refractue may be attempted. The methods of t eating the late results of cota va a by cervical and subtrochanteric osteolomy a considered. To these are added arthroplasty. Whit mans and Albee reconstruct on perations and e tra a trular for a subject of the subj

a treutar 1 o s
Co a vara of 1 fancy is defined as a ju tatrochan
teric lesson due t variable causes hich develops
after the infant starts to all a disually bef re the
age of ten years. A gait resembling the addie of a
duels or the git associated with congenital d sloca
t on of the hip devel jus because the ascent of the

greater trochanter lessens the action of the gluteal muscles. The axis of the femur is normal there is little adduction the patella looks forward and there is no external rotation. The roentgenogram shows that the bending is between the diaphysis and the neck, the angle folding on the lesser trochanter as an axis. At the onset the treatment should consist chiefly of continuous traction and rehef of weight bearing. In the advanced stages an operative procedure to introduce a bone graft through the trochanteric portion of the femur up into the neck gives about the only hope of arresting the progress of the condition.

The author believes that the pathological changes of all forms of cora vara may be dependent primarily upon disturbances of the blood supply of the head and neck of the femur Keelogg Speed M D

Charrier and Charhonnel Four Arthropiasties on tile Knee (Quatre arthroplasties du genou) Bor d a chir 1930 No 3 271

The authors call attention to the fact that less attention has been paid to arthroplasty on the knee in the surgical literature of France than in the literature of other countries. In 102 Chevaller was able to collect from the French literature the reports of only 31 cases in which such an operation was performed whereas the foreign literature reported 348 Of the 348 cases reported in the foreign literature satisfactory results were obtained in 200

The first of the 4 cases reported by the authors was that of a woman forty seven years old who had a complete fibro osseous ankylosis of the knee due to gonorrheal arthorits. At operation by the Kirsch ner Brocq technique the anterior thial tuberosity was temporarily detached. At the end of seven months there was flexion of 75 degrees.

In the second case that of a gril eighteen years of age an arthroplast, by the Putti technique was performed for ibrous ank) losis of the knee caused by gonococcal infection Two years and seven months after the operation there was motion of only

25 degrees

The third case was that of a forty year old man with fibrous ankylosis due to gonococcal infection Operation was performed by the Ceballos method After ten months there was flevion of 90 degrees and the patient was table to engage in various sports to swim and to ride a bicycle

The fourth case was that of a man twenty seven years old who developed traumant ostcomyehus with suppurative arthritis of the knee and grave septicemia following a builder wound in the lower end of the femur A Putti arthroplasty was per formed but re infection occurred and re ankylosis resulted

It is generally recognized that the results of ar throplasty are usually poor in ostcomychic arthritis Campbell who had of failures in 6 attempts is of the opinion that arthroplasty is contra indicated in arthritis of traumatic or pyogenic origin

JACOB E LLEIN M D

### FRACTURES AND DISLOCATIONS

Young A The Treatment of Fractures by Open Operation and Direct Fixation A Critical Study of an Experience of Twenty Years and More Particularly of Two Consecutive Fave Year Periods Ann Sure 1003 xcii 848

In his review of twenty years experience in the treatment of fractures by open operation and direct fixation Young discusses especially the two five year periods from May r 1917 to May 1 1922 and from May I 1922 to May I 1027 In the first of these five year periods 693 cases of fracture were treated Open operation was done in 272 (39 25 per cent) and some form of direct mechanical fixation was em ployed in 103 (14 86 per cent of the total number 37 86 per cent of these treated by open operation) In the second five year period 632 cases were treated Open operation was done in 267 (42 4 per cent) and direct fixation was employed in 120 (19 93 per cent of the total number 47 19 per cent of those treated by open operation) In both five year periods 1 325 cases were treated. Open opera tion was done in 539 (40 67 per cent) and direct mechanical fixation was used in 20 (17 28 per cent of the total number 42 48 per cent of those treated by open operation. In the nine year period from 1907 to 1916 direct fixation was used in only 6 per cent of the cases treated

The direct fixation was obtained by means of wire pins plates nails screws catgut sutures or a combination of such agents. The choice of method must depend upon the judgment of the surgeon. This will be influenced by various factors but the chief aim of treatment must be to secure the most satisfactory restoration of function with minimal risk and maximal accuracy in the adjustment of the

fragments

Young discusses the indications for the various types of internal fixation. In the two five year periods reviewed direct fixation was obtained by wrining alone in about one fifth of the cases. The bones to which this procedure was applied most frequently were the mandible olecranon patella and clavicle. Young has found brass wire more satisfactory than silver wire. He states that brass wire even of the finest grades is strong and phable and can be twisted to the point of absolute stabilization of the bone fragments with minimal danger of breaking.

Pinning or nathing was done in about one fourth of the cases treated by direct fixation in the two five year periods reviewed. For certain fractures of the neck of the femir Young advocates the use of a long and relatively thick steel pin passed through the greater trochanter axially along the femoral neck and into the head. He uses such a pin also for fracture dislocations of the acromioclavicular joint fractures of the outer end of the clavile and T shaped fractures of the lower end of the humerus. However in most cases in which pinning is indicated be employs much finer purs.

Plating vas done in about one half of the cases treated by direct fixation in the five year periods reviewed. The bones most frequently plated were the femur and tibia. Screwing alone vas done in

only 2 cases in each period

In conclus on Young states that open operation with direct feation is indicated not only for certain unusual fractures and dislocations but af o for a substantial proport on of fractures of the long hones as toffers the most hopeful outlook, for restoration of normal anatomical conditions favors early recovery of function and materially shortens the period of convalisacence Partic Coton-M ID

Ifend son M S Habitual D slocation of the Sh ulde J im M 42 93 x 1653

Habitual dislocation of the shoulder is rare and its occurrence following ordinary traumatic luvation i not known Henderson report observations made in 37 cases in which 40 operations were performed at the Mayo Clinic in the period from 1012 to 1930

The one defin te etiological factor in the 37 cases was primary traumatic dislocation. Most of the patients attributed the dislocation to severe trauma a fall or violence. Henderson believes that the major by of habitual dislocations are due to la ness of the antero inferior portion of the capsule but has been unable to prove this theory assistatorily in

performing capsulorrhaphy

The patient usually states that the primary d s location was produced by severe trauma and that following reduction the arn was not protected or was p otected for only a short time. The pain is se ere and unrelieved until reduction is effected The second d slocat on may be produced by equally se ere trauma but as a rule subsequent d slocations occur vithout trauma or violence. Habitual d's locations are almost always of the subcoracoid type the head re ting unde the coracoid process los terior d slocat ons are not so painful and may be of the snapp ng type Twenty five of the patients whose cases are re e ed were males The ages of 20 P tients ranged from twenty to forty years The dur ton of the complaint varied from six months t twenty five years and the number of d s location f om 2 to 100

Conse ative tre timent is I m ted to the application of an appa atus that it as as a check to ab duction ind forward elevation of the m. If noc tunal dilocations occur and especially if epilepsy is a complication the appar tus must be worn at might. Occasionally, shouldes which have become dislocated 3 or 4 times lose the habit under such treatment. Often however the disl cat ons become increasingly frequent and su gical intervention is midicated. In some cases in which only a few d solications have occur ed the patient has a feeling of insecurity and app ehens.

The operations devised for the p evention of dis location of the shoulder are of 5 types (1) those pe formed on the hony structure (2) those performed on the capsule (3) mu cle transfe e ce and mus fe lengthen ng (4) check and block ope at one per formed on the bony structure or ligaments and (5) suspension operations

In 16 of the cases reviewed anterior caps for rhaphy was done for recu ring anterior di location It resulted in a cure in 37 5 pe cent All of the anterior capsulorrh phies were done more than ten years ago Three patients who vere treated by posterior capsulorrhaphy for posterior d slocation remained well Of 8 patients subjected to a Clair mont operat on more than five years ago 50 per cent were cured Tenosuspension performed on 10 patients has resulted in a cure in all The length of time that has elapsed since the operation is more than five years in 2 cases mo e than three years in 2 cases more than to o vears in r case more than 1 year in 2 case more than eight months in 2 c ses and more than six months in I case The success of this operation depend on the careful placin of strong pieces of the tendon of the peroneus lo gus muscle to act as a suspension ligament through drill holes a the acrom on proces and the head of the humerus The 1 cr tons can be kept small a fact s orthy of consideration in the cases of women

B gnar J von The D Quer ain Oell eker Luxa tion F actu e of the Wrist (D de Q n Ohl k h Lu t f ktu de if d ele k) A h f if p Cl 193 x 168

The luxati n fracture described by de Ouervain in which the broken fanterio portion of the scaph oid bone is dislocated with the semilunar bone is an intercarpal injury. In the luxation fracture de ser bed by Ochlecker luxat on of the semil nar bone is complicated by breaking off and lu ation of a m e or less large portion of the cune form bone The simultaneous occurrence of the two injures i rare Tle autlo r p rts a case in which the e in juries vere associate! The patient vas a jockey thirty four years old who was thrown when his mount took a hurdle and fell on his left fat which sas holding the reins in such a way that the bent f gers struck the gr und frst The fall was so violent that his fist bored into the earth and his body was s ung around it The injury was evidently not diagnosed to ectly by the physician who first saw the patient as he applied a plaster splint without roentgen examination and without an attempt at reduction \s the pains increased and paræsthesi in the ha d set n the pat ent entered the hospital on the ffth day after the injury

The roentgenogram (dorsovolar exposu e) sho di marked narrowing of the carpus and di splacement of the whole hand to ard the radius 's de The sty lod process of the radius 'vas broken off The scaphoul ho e was broken in to pieces but the connection of the anterior po tion with the anterior woo of carpal bones was preserved. The shadow of the semitunar bone was changed. The semiturar bone was changed. The semiturar bone was changed to a A pea sized I gment was boken off from the cuwel (radius) and the semiturar bone. The hand was di located in the dor'l d'rec.

tion around the semilunar bone and the fragments of the scaphoid and cunciform bones connected with

it on each side

Under local anasthesia induced with 10 cm of a 1 per cent solution of novocan adrenabin reduction was attempted by marked dorsal flexion of the hand with avial traction followed by palmar flexion of the hand under continuous pressure on the semi lunar bone. It was accomplished however only after an assistant had brought the hand into ulnar hyperabduction to overcome the radial abduction Roentgen examination then showed all of the fractured bones to be in correct position.

A plaster splint was applied for fourteen days and after treatment then given for six weeks. At the end of that time roentgen examination showed no pathological changes in the wrist except pseudar throsis of the scaphod bone. Function was good The patient was able to return to his occupation and a few weeks later was taking lessons in boving

This case shows that even the complication of luxation of the semilianar bone by fractures does not contra indicate an attempt at reduction. Removal of the semilianar and scaphoid bones should be considered only when reposition of the semilianar bone and the fragment of the scaphoid together is impossible. Zetlakae (Z)

Mckenna H Fractures of the Neck of the Femur with Special Reference to the Treatment of Intracapsular Fracture Ann Surg 1930 von 882

The author first briefly reviews the embryology and anatomy of the hip joint with regard to the nutrition of the head and neck of the femur at different stages of development. Keibel and Mail found that in embryos between o and 30 mm in length it is possible to distinguish a fibrous band passing through the joint cavity of the bip which is later to form the ligamentum teres. According to Moser blood vessels persist in this structure up to about the fourth year but later most of them atrophy. According to koloding the blood vessels

supplying the head of the adolescent femur include vessels coming from the diaphysis of the femur epiphyseal vessels vessels accompanying the ligamentum teres and periosteal vessels McKenna states that in the event of intracapsular fracture these vessels may be considered end arteries and all of them may be injuried. Under such circumstances the formation of bony cillus will depend upon whether a blood supply sufficient to nourish the head and proximal fragment of the neck of the femur remains or is re established.

In Mckenna's opinion the ideal treatment of intracapsular fractures of the neck of the femur is the abduction method following either natural or artificial impaction. The Cotton method of artificial impaction is cited as giving excellent results.

Mckenna reviews twenty open operations which he performed in nineteen cases in the last fifteen years. In all but two in which steel nails were used autogenous tibial transplants were employed. In some of the cases the grafts were introduced without opening the capsule. In the others equally good results were obtained when the capsule was opened A dowel opening was made through the compact portion of the shuft of the femur with an electrically driven drill and continued through the neck into the head by means of a hand drill the previously prepared graft being then driven into the neck, of the femur. In the two cases in which steel nails were used non umon resulted.

Mckenna draws the following conclusions

In carefully selected cases of intracapsular fracture of the femur the open method of treatment may be used without undue risk

2 In some cases the fracture may be treated without opening the capsule the operation being thereby simplified

3 The physiology of bone repair seems to show that the autogenous bone transplant accelerate callus formation in fractures with a poor blood supply and therefore may be used to advantage in the repair of certain intracapsular fractures of the neck of the feed of the femur PAUL C COLONNA M D

# SURGLRY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Allen A W Recent Ad ances in the Treatm nt of Cire il tory Disturbances of the Ixtremities S & 930 X 9.3

In a special clin c est blished at the Massachusetts General Hospital for the treatment of circulatory d eases of the extremities 63 new patients ere examined and treated during the period from December 19 8 to May 1 1930 Of these 560 vere treated for varicose veins and 104 for some other circulators disturbance

The author class fee arterial diseases of the extremities into a main groups, those with mechanical arte ial obliteration and those dependent upon vasomotor imbalance The former include semile nd diabetic arteriosclerosis Buerger's disease and the d sea e of the middle coat of the artery described by Monckeberg. In the latter are included cases usu. ally termed R yanud's disease but varying in vaso motor imbalance from pl asie color changes to such

onstant cha ges as scleroderma

In the Massachusetts General Hospital it has been found that patients n th mild symptoms may carry on for an indefinite period when given oc cas onal advice n the Out Patient department concerning rest hygiene proper protection of the feet with lamb's vool and voolen stockings and e erc ses to be carr ed out at home. In suitable ambulatory ca es of vasomotor disorders or thromboangut's obliterars the patient is occasionally sent to the Emergency Ward for twenty four hours for the ntravenous injection of typhoid vaccine for the production of pr t in shock latients s ho are completely d s bled nd need constant observation are treated in the hospital They are first given any eme gency attention necessary and then treated r utinely by test the application of heat hygienic measures the admini trat on of fluids dietars con trol nd eve ei e Spec fic treatment is not in stitut d until stabili ation has been obtained Advance g infects n is drained and ad ancing lymphangi t s t eated by amout tion Non specific fore an protein is tried in thrombo and itis obliterans the injection of alcohol into the peripheral nerves in cases of intractable pain and sympathetic gangl onectomy in advanced vasometer d sorders. When in chr nic cases improvement a not e ident after a gi en time (from one to eight weeks de rendin upon the condition and contributory fac to s) more rad cal measures are adopted case in which the condition of an extremity has grown definitely vorse in spite of t eatment and amputation of sed the patient is referred to the Soci 1 Service Det artment

MAN LL L CHTENSTEIN M D

Schloffer II The Changes in a Rac mose Arterial
Angl ma (Umb u en A gr ma a te al ree
m s m) D i che Zi ch f Ch 930 ccxxv 330

The author reports a case of racemose arterial angioma in a man t venty one years of age who was under treatment for seven years At the first operation the left external earoud artery was ligated and the entire tumor mass was excised after ex tensive percutaneous ligation. Three years later the tumor recurred A second percutaneous I gation was then done and followed by extensive punctur ing with the galvanocautery A year later the tumor enlarged to an enormous spongy cushion but it then resembled more closely a ra emose artenal aneurs m and d'd not pui ate The findings of palnation suggested a cavernoma lifest forically there was no longer any racemose arterial angioma the neoplasm cons ting of dilated blood vessels cheffy veins and foci of a simple blastomatous angioma with a olated cavernous spaces

This case i believed by the author to support the theory that the racemose arter al angioma 1 the result of an abnormal arteriovenous communica tion and il at the pulsating vessels of such tumors

are not arteries but arterialized veins

NAEGELI (Z) Rosenthal S R Tl ombosis and Embolism J

Lb & Cla 3ld 930 1 7 Of 1 000 autopsies thrombosis 1 as found in 134 eases embolism in 76 and fatal lung embolism in 2 The relation of these conditions to age is shown in

TABLE I -THE RLLATION OF AGE TO THROMBOSIS EMBOLISM AND FATAL LUNG FUBOLISM

	F ulb				
Ages	A top es	The mbos	Embolism	n-bolism	
9.5	6	6			
2	45 65	3			
5	. 5	•	3		
s	33	3			
ş -6		3			
i +	3,	3	š		
Then	mbos: 1.25	found in r	c 2 per cen	st of the	

male a d 9 per cent of the females The se inci dence of non fatal embolism was similar. The c ses of fatal lung embolism vere those of females W th rega d to race it v as found that the inc

dence of thrombosis and emboli m was about the same in white and colored p r on

The relation of thrombosi an i embolism to ut g cal procedures trauma and labor is shown in lable 2 their relation to changes in the heart and arteries in Table 3 and their relation to infections and inflammations in Table 4

Table 1

TABLE II -THE RELATION OF THROMBOSIS AND EMBOLISM TO SURGICAL PROCEDURES TRAUMA AND LABOR

	C se with prt	t C	with p truma I bo
T tal umb Th mb is	895		s
Emboli m	6		
l tall gemb lism			

TABLE III -THE RELATION OF THROMBOSIS AND EMBOLISM TO CHANGES IN THE HEART AND ARTERICS

TABLE IN -THE RELATION OF THROMBOSIS AND EMBOLISM TO INFECTIONS AND INFLAMMATIONS

The incidence of thrombosis and embolism and of heart and vascular changes was higher in well nourished subjects than in the others

The Treatment of Thrombosis and Thrombophlebltis (Zur Behandlung der Throm bose und der Thrombophlebitis) Zentralbl f Chir 1930 P 1721

Since 1923 the author has often employed the compression dressing of Fischer for thrombosis and thrombophlebitis of the leg and thigh with uniformly satisfactory results Fischer's method consists in making the venous valves again capable of closure by means of compression

The diseased vern is closed at a point central to the location of the thrombus and the dressing resembles that applied to the umbilious of the infant Adhesive plaster is then applied firmly and evenly around the leg The application of the bandage must be done very accurately so that it does not bind or cause pre sure from folds The author now uses the well known elastoplast bandage for the circular dressing The bandage should begin at the foot and continue to at least 10 cm above the thrombosed spot It must be drawn up tightly

With the application of the compression dression the veins and lymph vessels of the leg are markedly constricted and the thrombosis disappears more quickly than otherwise In addition the patient may get up at once and be about if his condition otherwise allows The larger the dressing the more striking the result. The pain soon ceases the fever subsides and the leg which previously felt beavy seems to the patient much lighter There should be no embolism

Jaeger's experience is based on more than roo cases in hospital practice where the compression dressing was applied with the first signs of throm bosis. No patient was compelled to remain in the bospital for a longer period of time than would have been necessary if the thrombosis had not occurred as ambulatory treatment could be given

As Fischer's method has been used with equally good results also by others Jaeger believes it should be given a further trial

Leriche R and Fontaine R A Contribution to the Experimental Study of the Mechanism of Action of Ligation of the Vein in Obliteration of the Artery (Contribution & létude expéri mentale du mecan sme d'action des li atures veineuses dans les oblit rat ons arterielle ) Lyon ch r 1930 XXVII 602

It has been shown experimentally that after liga tion of a large artery ligation of the accompanying vein brings about a rise in the blood pressure Re cently ligation of the companion vein has been rec ommended for cases of spontaneous obliteration of an artery and as an adjunct to penartenal sym pathectomy in the treatment of atheromatous lesions of the large arteries

The authors formerly believed that when the vein is intact the aspiration of blood by the venous system following arterial ligation increases the fall in the blood pressure. In experiments recently carried out on dogs they found that ligation of the femoral vein brought about an arteriocapillary congestion which resulted in peripheral vasoconstriction with increased pressure in the distal end of the ligated femoral artery lasting for from fifteen to sixty minutes and followed by a slow return to normal When the vern was re-opened there was a sudden fall in the peripheral pressure below its initial level due to active peripheral vasodilatation which was followed by a slow return to normal They believe that in vein ligation in man the establishment of collateral circulation acts in the same way as re opening of the vein in the experimental animal They conclude that it is the active and intense pe ripheral vasodilatation and not the initial and transi tory peripheral hypertension which is of therapeutic value In short ligation of the vein in obliteration of the artery is a masked sympathectomy. The active vasodilatation when the ligature on the vein is loosed is just like the effect of removing a garrot AUDREY G MORGAN M D

#### BLOOD TRANSFUSION

The Blood Cells Recent Advances McLean J \ in Their Examination and Interpretation Med J A str l a 1930 11 623

McLean reports a careful study of blood cells and methods of estimating other constituents of the

blood He calls attention to the fact that red cell counts ill not indicate the degree of anzemia cor rectly unless the blood volume remains constant. If the plasma olume is maintained at a constant level the total blood volume in conditions with a depletion of red cells must be lovered. In rabbits with lead poisoning the plasma volume remained constant there i as a fall in corpuscular volume averaging 43 per cent and the average red cell count fell 20 per cent

The est mation of hamoglob a by the various methods is considered and a table is presented in thich the find age of the Haldane carbon monorade the Sahli and the Tallquist methods in diseased and normal subjects are compared. A cons detable discrepancy is apparent. The Tallquist method is crude and should be discarded The Van Slyke modifica t n of the Haldane and Smith method has reduced the error to 0 18 per cent

In estimating the leucocyte count, the diurnal

anation must be considered

The halo method I me suring the size of small objects from the diffraction of light is applicable in the d agnosis of permicious anam a and possibly in f mil al ach lurie jaundice. The author reports his study I this method and presents tables high com pare the r sults obtained ith I uper a diffraction micr meter and L e s halometer

For the mie scopic examination of blood the Giemsa sta n s recommended The author sho as the de elopment of the red cell from mecaloblasts and ers the blasts by illustrat as The red cells der ed from the m galobiasts are giants in the mornholog ical sense and are usually termed megal cytes. In the m re immature cells the nucleus has a ell defined the chromatin structure the nucleols and the cytoplasm takes the hasic stain with a slight slate gray tinge it m the presence of hamoglob a As the cell matures the hamoglobin in the cyto plasm mer a es The erythroblast is a smaller cell and the chrom tin network is e arse and bas a radi ating ann arance. A ret culocyte is an immature red cell n which the basoph he substance has been precipitat d in the lang cell by a dve such as buil ant cres I blue An increased number of reticulocytes in the per pheral c reulat to indicates active regenera t n f red cells in the bone marro v In familial acholuric jaundice the most obvious defect is in creased f gil ty of the mature red tells. To com pensat for the curta led e istence of these cells in the per pheral circulation the bone marrow under g s hyperplas a as s evident from the ery high ret culocyte count. This disease is in contrast to pern c us anæmia in vh ch there s defects e forma tion of red cells in the bone marter and the periph eral circulation sho s a very 1 v reticulocyte count The response I pern c us anamia to heer therapy

is not constant i may be inhibited by sep In the d agnosis and pr gnos s of becure cases of seps s Schill ng s inde i useful

The monocyte and the small lymphocyte are read ily identifed ir m the character st e structure but other mononuclear cell apparently in an intermed ate group are classified v th diff culty even with the and of the o ydase reaction and supra ital staining There is an exact correlation in the morphology of

bone marro v and blood

Permicious animua is apparently a deficiency dis ease in 1 hich some substance essential for the normal de elopment of red cell is lacking

W N Ro art WD

### LYMPH GLANDS AND LYMPHATIC VESSELS

Leventh T and Price A E Mikulicz s Disea e and the Mikulicz Synd me Their Treatment by Irradiati n im JR tg

On the basis of a study of nine cases, the authors conclude that the symmetrical enlargements of the fachry mai glands and one or more pairs of the sal ary glands described as Mikulicz s di ease should be divided into two main group. Mikul cz s disease proper and the Mikulicz syndrome

They include with Mikul cz s di case proper all symmetrical non inflammatory stellings of the lichrismal and salivary glands nithout insolvement of the lymphatic system and athout alterat n of the blood Two of their ea es were of the type

With the Mikulicz syndrome they include enlarge ments of the lachrymal and sale ary gland which are man festations of some clinically and patholog scalls ell defined disease such as leul.mmia tuber cul s s soph lis lymphosare ma Hodgluns d's ea e or us coparot d fes er

In the treatment of the first group the technique of irra h tion therapy i based on the presence of a lymphocytic infiltration ath an organized structural arrangement a so called 1 mphadenos a of the affected fachrs mal and salmary gland Becau e of this c adt n di ide i doses (from 15 to 50 per cent sud) gr en over a relati els logg period of t me a m re beneficial th n a single massi e dose such as i admin stered in the treatment of ne plastic proc es es and the quality of the rays used is of consider ably less importance

Three of the authors cases ere clas if ed as cases of leukæmia lead ng to the Mikul cz syndrome The manifestations of the di ease resembled closely tho e of any leuk-emia and it is probably more correct to assume that the condition was leukamia with en

largement of the sain in gl nds rather than an alcukemin stage of leukemia. The technique of stradiate nemployed s as the same as that ord nar ly used in the irrad tion therapy of leukem a

T o of the authors patients ere suffering also from tuberculosis and in at least three cases in the liter ture in olvement of the excised salitary glands by tubercle batall as demonstrated The author treated the r cases compl cated by tuberculos s in the same way that they treat tuberculous adentis In none of the r cases as syphil's or useoparotid fever thought to be respons ble for the tumefaction They had one case of lymphosarcoma nd one case of Hodgkin's disease i bich pre ented at the same time enlargement of one or more pairs of salivary glands
In both instances irradiation therapy caused im
provement Charles H Heacock M D

Loeper M and Lemaire A Inoculation with the Blood and Urine of Two Patients with Hodg kin s Disease (Linoculation du sang et des ur ne de deux malades atteints de maladie de Hod kin) Buill et mém Soc med d hop d Par 1930 vivi 1444

In the first case reported the presence of lympho granulomatosis was proved by biopsy and the fatal The only peculiarity evolution of the condition was an attack of fever up to 39 degrees C occurring daily between 5 and 7 p m accompanied by profuse sweating and followed by an abundant emission of urine These symptoms suggested a bacteræmic discharge in the course of a subacute infection but blood cultures were constantly negative guinea pigs were inoculated with blood taken at the height of a febrile attack and with urine obtained aseptically during the decline of such an attack The animals died ten eleven and twelve days after the inoculation and at necropsy the liver spleen kidney and adrenals were found conge ted and almost hæmorrhagic Histological examination of the liver supported the hypothesis that the lesions were not of the ordinary type On low magnifica tion the parenchyma appeared dotted by pale areas poorly stained with eosin where all trabecular co ordination had disappeared. There was to be een also an intrabecular hæmorrhagic infiltration. The ve sels were dilated and engorged with blood. On high magnification the parenchyma showed numer ous necrotic areas in which the cells were poorly struned and the nodules showed karyorrhexis or pyknosis. In the surrounding areas there were masses of cells formed by macrophages and polynuclears minny of which were filled with acidophile granulations.

In the second case that of a woman with Hodg kin a disease four guinea pigs were inoculated with the patient is blood. One of the animals died thirty days later. At necropsy on this animal the liver and spleen were found to be enormous adherent and filled with whitish nodules the size of lentils. The caseous pus showed no hacteria. Sections demonstrated that the small abscesses were situated in the paranchyma. In the surrounding areas there was an infiltration very rich in cosmophiles and in places there vere multinuclear macrophages re sembling the cell. of Sternberg.

It is admitted that these indings are open to criticism. Transmission of the disease in series to animals was not possible. Moreover the hepato spleuic changes in the guinea pig in the second experiment resembled the zoo-leic pseudotuberculoss of the guinea pig. The authors believe that the hepatic lesions in the guinea pigs used in the first case represented the first stage of the lesions found in the guinea pig used in the second case in which the condition was of longer duration.

## SURGICAL TECHNIOUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Gotte man J P la D and Ziegler J M Tie Eff cts of the Flectrocauters on Norm 1 Ti sues S g G 6-06 1 93 1 667

In a study of the effects of the electrocautery on the skin muscle liver kidney and spleen of normal adult albino rats the authors found that the electrocautery inc ion produces extensi e necro is which acts as a foreign body producing a foreign body giant cell reaction. Following a discuss on of the advantages and di advantages of the electrocautery they conclude that the promi cuous use of the electrocautery is to be di couraged

JOHN J MALO EY M D

O e holt R II Postope at e Pulmon ry Hypo ventilati n J 1 1/ 1

Mer operati as on the abdomen the expansion of the clest ad min hed a per cent and roentgen o r ms shot that disphragm tic excurs ons are re duced from 33 to 50 per cent. In a study of 218 patients subjected to lapar tom, the vital capacity as found reduced by 40 per cent after operations on the lower abdomen and by 64 per cent after operate ns on the upper abdomen 's all clinical and roentgenological evidence of the degree of pul monary by pove tilat on followed closely the evalua tion of the vital c pacity the vital capacity was use I as a criterion of the impo tance of various factors influencing re pirat ry action after operations on the abdomen

The thora c vol me is decreased and expansion of the lower lobes of the lungs is prevented by high pos tion of the diaphragm due to the opening of the abd minal cav ty Other mechanical factors in ol ed in post perat e hypo entilat on of the lungs are effer splinting of the miscles of the abdomen due to pain surgic I d essings binders and the pat nts post n Anæsthesia alone causes a re

duction in the vital capacity

Postoperat ve tre tment should include all meas tending to correct faulty entilation of the pulmo ary t ssue W LLIAM E SHACKLETON M D

#### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Kr ft R Su g c 1T atment of Recent Accidents
(U be h ru g sch Beha di g o i he U
i lle) F i i d Th p 193 449

The emergency treatment of sound should be limited to e sent is Tamp nade and I gation of limbs should be perfo med relatively seldom For the final treatment Fr edri h s wound excis on with the use of rivanol (1 per cent) Pregl solution and balsam of Peru when necessary is recommended Is a rule a safety drain or gau e strip is inserted to reduce the danger of gas bacillus infection. In ma chinery accidents this danger is slight but in street accidents it is g eat

In a period of three months gas bacilli were found in thirteen wounds a ithout clinical manifestations of their presence. The effect of gas gangrene serum is not defin telv recogni able. Prophylactic tetanus treatment should be g en. In manifest tetanus chloral by drate magnesium sulphate and morphi e therapy are a dicated Recovery results in 82 per

cent of the cases

In joint pleural and per toneal inju ies primary closure of the serous cavities is des rable. In cases of skulf and brain injury a careful inspect in should be made an I primary sound closure obta ned if pos sible The patient suffering from concu sion should rest in bed for four weeks When there is a pre su e pul e a 40 per cent glucose or a 2 per cent sodium chloride solution should le a imin tered. In se ere hurns a 2/ per cent tannin solution should be used as a spray every hour u til a crust is fo med or a mixture of 15 gm of tannic acid 250 gm of lime a ater and 250 gm of linseed oil should be applied to the sound on a comp ess ts ice daily for from four to six days Fracture treatment has been im proved by we extension the unnadded plaster cast and distract on by Boehler's method. The open treatment of fractures can often be avoided The treatment of vertebral f actures has been advanced hy the rules of Magnus In fractures of the clavicle the arm may be mobile ed early when the bandage technique of Bergmannsheil is used. In fracture of the radius the arm is usually splinted in dorsal flexion and mob lized early Transp rtable \ ray apparatus is recommended BUETTNER (Z)

#### Se ck II n sen I Stud es in Wound Infections tela h & Sond tot 1 372

The author made a hacteriological study of ts enty se en accidental wounds s ith the use of the si ulence te t described by Ruge and Skajaa In o der that the bacteriological status before treat ment might be determined the ex mination was made on t ssue remove i in the primary e cision of the wounds The author's intention vas to deter m ne hos the healing of wounds is influenced by the or ginal infection and the degree to which primary e cision combined with the use of antiseptics is able t prevent the development of 1 feet on in accidental

In thirteen of the twenty seven wounds very few bacteria we e found before the treatment. In afl of

this group p mary heal ng resulte l

In five cases numerous bacteria were present but as they were completely or almost completely reduced in the virulence test they were evidently of low virulence Primary union resulted in four of these cases

In nine cases there were numerous bacteria which were not at all reduced or only incompletely reduced in the virulence test. The primary excision failed in prevent infection in eight of this group and primary union was obtained in only one.

#### ANÆSTHESIA

Horstenegg W A Avertin Narcosis in Children (Avertinnarkosen hei kindern) Schmer 1930 in

In Spitzy s clinic avertin narcoss is employed andly for children hecause the child s heart lungs liver and kidneys are fairly resistant. The chief advantage of avertin narcosis is that it permits the extension of operative interventions without harm especially in the correction of deformity and difficult repositions of hip joint luxation. A disadvantage is the impossibility of interrupting the narcosis after it has once been started.

The author reviews 115 narcoses in 109 children six months of age and older A 2 per cent solution of avertin was used The dose was n 125 gm per kilogram of body weight There was no preliminary medication. The intestine was empired by enema A liquid diet was given on the day before the opera

The solution was prepared carefully in accordance with the directions. The anæsthetic was always given in the ward and after from ten to fifteen min utes the child was taken to the operation is from twenty to thirty minutes after the introduction of the anæs thetic. The necessary deep sleep lasts frim forty five minutes to one hour. Awakening does not occur until after from one and one half to three hours.

In the cases reviewed no solution was ever found in the intestine after the operation was completed As a rule the blood pressure rose slightly at first fell about ten minutes after the introduction of the avertin and rose again after a further ten minutes. In one fourth of the cases there was nn fall in the blood pressure. The most marked fall was frung 5 to 30 mm. Hg. No excitement and nn injuries in the heart. Aidneys or intestine were observed. In 4, per cent of the cases complete narcosis was instanced with the avertin alone but in the others ammunts in ether up to 40 c cm. were required in addition.

These observations indicate that avertin narcosis is entirely safe for children Zwirg (Z)

André Thomas The Cauda Equina Syndrame and Spinal Anresthesia (Syndrome de la queue de che al et rach anesthé e) Pesser d Par 1930 xxxvi 1 1387

Lesions of the cauda equina are most aften caused by trauma compression by hone (Patt's disease metastatic cancer of the lumbar vertebræ and sacrum) primary tumors of the nerve roots af fections of the meninges and syphilis

After describing briefly the urinary rectal and sexual symptoms associated with lesions of the cauda equina the author reports the case of a woman twenty five years of age who det eloped the cauda equina syndrome following an operation for resistant hymen which was performed under spinal anaesthesia induced by the injection of 8 etgm of a 4 per cent solution of novocain Immediately after the operation the patient complained of a feeling of numbness in the lower part of the hody. Movement of the limbs was difficult and walking was impossible

Several weeks after the operation movement of the limbs was better but the patient still required At times she suffered from lancinating pains in the calves particularly in the left leg Dur ing the year following the operation she became Labor was prolonged for five days pregnant Four years later she had entirely recovered the function of her limbs but complained of urinary and rectal incontinence She was completely anæsthetic to sexual relationships but had orgasms during dreams A characteristic sign of cauda equina lesion was her frequent change of place when sitting due to the feeling that she was sitting on a cavity or opening. For several months she was given treatment with the high frequency current over the permeal anal and vaginal regions. This caused gradual improvement particularly in urina

The cauda equina syndrome seems to be localized in the region of the last three sacral nerves

The unfavorable sequelæ of spinal anesthesia are well known. They include headache meningeal irritation postoperative comiting motor disturbances paralysis of the limbs and paralysis of cranial nerves especially the oculomotor nerve.

The unusual feature of the author's case was the persistence of the sequelize elven years after the operation. The complications of spinal annesthesia have been attributed to tovic mechanical by draubic meningeal and circulatory factors. They have occurred after the injection of stovaine novocain impacocaine cocaine alypine caffeine and adrea alin. The drugs most frequently accused in the reports are novicain and stovaine but these are the drugs must frequently used. The author suggests that sensitiveness or neurotropism may be a factor.

Andre Thomas cates the work of Lapique and Legendre which demonstrated anatomical changes in the myelin sheath and the axis cylinder after contact with an anæsthetic agent. When physio logical serum was substituted for the anæsthetic the nerve sheath and cylinder returned to normal The proper induction of spinal anasthesia requires freshness of the solution careful dosage measurement in the cerebrospinal fluid pressure slow in jectim and proper position of the patient. Even when these requirements are met unfavorable

sequelæ are not always prevented as there remains
the possibility of idiosyncrasy of the patient to the
anæsthetic Jacob E Klein M D

J nes W II A Ne Method f Induc ng Spin 1 Anæ the la with Pe coin (No. 11 méth 1 da esths h de p 1 pe e) L<sub>3</sub>

l creame is a derivative of quinolin and ther fore clated to quint e it belongs to an entirely different group than eccaine and novocain. It is readily soluble in alcoh l and vater and give neutral solutions. The sol tions shill be made ith r distilled water. The percar emust not come, into contact with alkalises as such contact preduces

a b sic nsoluble precip tate

Laborators e per ment h e shown that the effects of percance are of time as intense so the so of oc ne nd rot m sas intense as the e of no cenn lher fre although the tient of percaine is g ate thin that of came and no ocan t is are till due d b the etterme d lutto spossal le like local effect of pe car e lasts longer than that fax d g u d preva is h.

liter p clim nary test which pro el that jer cane des not jure the tis es the auth r u ed it m re than oo case il emplors a meth d Inst ad of 1thd as ng spinal flui! he injects the ana thetic under pressure | The sec n1 or the description or the description of the description of the an thesa It hould extend higher than the 1 fth dorsal but hould not reach the cerus 1 roots At first Tones injected it c cm of a 1 ooo solut on He obtained c mpl te splanchnic block with perfect relax tion of the abdominal m seles but I has s met mes used as mucl as o c cm. Il s p tients ranged from s teen to eight, years of age tion of 1 co 1 500 or 2000 may be used but Jones has fou d it generally best t employ a olution of a lo er co cent ation than the spinal fluid lich is made with o 5 p r cent salt solution With such a olut n and the patient n dorsal decubitus the ante ior root a e most intensely annestheti ed. The patient should first b placed in ventral decubitus to ind ce anasthes a of the poste for roots and then changed to dor al decubitus

In every case a dose of from 6 to 10 egm of ephedrine is given before the injection of the anæsthetic The duration of the anæsthesia is in proportion to the c acentrat on of the percaine A 1 20 0 soluti n is sufficient for ope ations re qui ng about three quarters of an hou a 1 1 500 s lution for those requiring between one and to o hous and a 1 oo solution for those requiring t vo hours or more Fifteen cubic centimeters of a 1 2 000 solution is enough for painle's appendee tomy For anæsthesia of the dorsal ro is the injecti n is made between the first and second lumbar v rtebræ for anæsthesia of the sacral and coecyg al plexuses between the first and third lumbar verte bræ and for blocking of th eauda bet seen the fourth and fifth lumbar ertebræ

The injection all ays causes a fall in the blood pressure but the decrease is less than that produced by no-ocain or stovaine. The pulse is very little affected and the patient's general conditions much better than when novocain or stovaine is much better than when novocain or stovaine is much Vomiting sometimes occurs and as neither the afferent tract of the vagus nor that of the phrenie is anasthetized there may be a certain amount of pain in exploration of the upper part of the ab lomen. Care must be taken to pre ent paral yass of the motor phrenie nerves.

From his experience the author concludes that p reame is the best anaesthetic for spinal anaesthesia lecau e of its poverful anaesthetic action and love to icits to the state of the spinal anaesthetic action and love to icits the spinal anaesthetic action and love anaesthetic anaesthetic anaesthetic anaesthetic action anaesthetic anaestheti

Albo VI and PI J C. The hervous Seq elar fall spin and PI J C. The hervous Seq elar fall spin and an animal spin and provide the spin animal spin ani

The authors summarize the clinical find ags ith regard t the nerv us system in twenty four patients who had been subjected to spinal anæsthes a

Spinal anæsthes a may be followed by ner ou sympt ms persisting for months or e en years The e symptoms may be classifed as apparent and hidlen symptoms. The first group include sfas mole paraplega crural monoplegia and the Bro n S qua d syndrome The second include les ser ner ous signs in one or both lower I mbs which cause the patient no inconven ence and are revealed only by cli ical examination. Some of the latter are py m dal signs revealed at once in the first examina tion by the Babi ski and Oppenheim tests e aggera tion of tendon refle es hich normal in the upper limbs cannot be ttributed to a general increase of reflex excitab lity and clonus of the foot or patella Others are s gas a fact appear only after the patient h s made an effort (Dejerine s syndrome of inter mittent me tullary claudication) Many patients sho absolutely no abnormal ty on chaical examina t on of the nervous system after spinal anasthesia

Thinking that perhaps the hidden syndrome might be due to slight medullary lesions caused by the spinal puncture the authors studied the nervous systems of several subjects he had undersome I mbar puncture for diagnostic purposes. The

slight symptoms ere not found

The studes of Sterano ich sho that certain asspite men ngeal reactions may be caused by anisobetrizing fluids. The town acts perhaps by pro olving congests to eractions which go a nest to a simple hype gly corrhacia or acute meningiti. The authors conclude that it acts not only on the meninges but also on the eord perhaps by extension in the depth of the i flammatory process and that the f cof myelities of vanable dimensions thus determined then give ruse to syndromes of importance or to 1 ser b dden syndromes.

SURGICAL INSTRUMENTS AND APPARATUS

Knorr M The Bacterial Content of Sterile Commercial Catgut (Der Keingehalt des sterilen Handelscatguts)

Murchen med Wehnschr 1930 1

The author first emphasizes that an object may be called sterile only when cultures made from it show no bacterial growth. If it contains organisms which have been hindered in their growth or deprived of their capacity for growth by bactericial measures it is not sterile since after the removal of the disin fecting substance bacterial growth may again be obtained.

Anorr s studies of commercial sterile catgut which have been carried out over a period of years have demonstrated the following facts

One group of samples contained aerobic spore formers non patho\_enic anaerobic spore formers and almost always patbogenic anaerobic spore formers (gas gangrene malignant oxdema) Another group differed from the first group only in the less frequent occurrence of the last mentioned form nevertheless animal experiments demonstrated the presence of bacteria of high virulence also in this group. In the third or most sterile group there

were aerobic spore formers of the earth bacillus

Accordingly 80 per cent of the catgut samples examined did not conform to the officially established definition of sterilization. The bacteriological findings were completely confirmed by microscopic examination. Therefore it appears necessary that the

amination Therefore it appears necessary that the catgut serum considered harmless by the clinician be examined for its bacterial flora as it might found to contain each gas gangrene bacilli. Par ticularly noteworthy was the fact that sterile citigut showed and fast bacilli which in form resemble tubercle bacill. This finding also should be followed up. Moreover it must be determined whether the actimomyces fungus may not be present in sterile catgut. Obviously, it is not possible to attribute all ywound disturbances to catgut organisms particular ly when non spore formers are encountered. The latter are certainly destroyed by the catgut disin fecting methods.

Catgut may give rise also to reactions due to for eigh protein hypersensitiveness

In conclusion Knorr states that according to the findings of recent investigations (Kronnich) our methods of sterilizing operating lines and injection fluids leave much to be desired Max Budde (Z)

## PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Capp Ili L R dio Anaphylaxis In the Normal An mal (La d fil n ll g m male) R d l m d 193 x 1 84

Cappelli failed to produce anaphylactic shock as sensitured tablets by exposing, them to large doses of the roentgen rays. He therefore concludes that tradiation does not break down the physiological protens of the organism into albumoses and pep tones since if such breaking do n had occurred in his experimental animals anaphylactic shock would have resulted.

He states that roentgen may sickness although clinically analogous to anaphylactic shock is not a specific synd ome but a general organic eaction due to discoulibrium of elementary substrata

C D HA GE SEN M D

Glaser M A G mplodol (Iodized Rapeseed Oil)
Its Us In the Roentg nological Visuatization of the Body Ca ties A J R lg I 193
xxi 477

Campiodol s rapesed oil containing 43 per cent of elemental of ne Its specific gravity is 1 289. It is very table only slightly irritating and almost non tour. Dogs has e withstood an oral dose of 675 ccm per kilogram of body weight and an intra enous d se of 1,5 ccm per klogram of body weight a muture of campiodol with ethyl oil has a specific grav ty of only oo4 and is of great alue in the 7 ualistat nof body cay ties.

The p parations of campiodal recommended by Glaser f r the anous cavines are as follons racheob onchial tree undilated camp odd sub achno d space blood essels fistulic female genitalia spheno dal sinu frontial sinus Lachry mal ducts m toids and custachian tubes a dilution of 4 mal llarv s n s a 50 per cent solution and

genito u nary tract an emuls on

A very satt f ctory medium for urography a an mulsion of e mpiodol vith acacia. Emul field campiodol has a spec fie gr ity of o78 and a viscosity only lightly more than twice that of water It is non irr tating non to ic and more opaque than 15 per c nt sodium iod de It has been em ployed succes fulls n more than 3 o cases.

CHARLES H HE COCK M D

#### RADIUM

Ast M L Dos ge M urement to Surfac Radi um The apy (O o s ll mi d m t ap d sup fice) R d l m d 93 x 65

Asti believes that the Dominici unit measured by me ns of the ionom crometer of Danne and Mallet is the best unit f r measu ing su face radiat on by radum He finds the terms millicuries destroyed and mill gram hours to be mappiteable to the estimation of surface radiation. He defines the Dominicu unit as the dose received in ten hours by a spherical somethon chamber of a volume of a common with walls of a min of aluminum placed with its center 26.2 mm from the middle of the aris of a tube containing to mgm of radium. The tube should have an internal chamber 16 mm in leight and walls with a fitration [platinum or gold equilibrium and walls with a fitration [platinum or gold equilibrium] and walls with a fitration [platinum or gold equilibrium] and walls with a fitration [platinum or gold equilibrium] and walls with or grammatical fit of the should be normal to the direction in who the distance from the center of the ionization chamber is measured.

The sonomicrometer of Danne and Mallet is at once an electroscope and an ionucation chamber The displacement of the gold leaves suspended in the chamber is regit sered on a micrometer scale placed opposite it. The author's associates his e drawn up tables from hich the number of Domicium in it and the slin cry thema dose can be calculated in terms of the pomouricometer readines.

Astr reports a series of experiments to determine the amount of energy lost when masses of water of various dimensions are interposed between the radiant source and the measuring chamber, and

radiant source and the measuring chamber and hen the measuring unit is placed at the le el of masses of water. From the results he draws the following conclusions.

Mensurements to determine the su face dosage may be made either in air or at the level of a mas ot

may be made either in air or at the level of a mas or a to a ter of any size

2 When the amount of absorption in trans
mission through tissue as in depth dosage calcula
tion 15 in estigated masses of water as nuarly as

possible the size of the mass of ti sue to be radiated should be used CD HAAGENSEY MD Quick D Radium in Canc r Therapy B i MJ

This is a review of the methods of treating cancer which a e-employed at the Memorial Hospital Nev

Ouch states that radium is best adapted for intestital impliantation and for use in special applicators
within body cavit is. For external trad ation over
large surfaces the X-ray should be employed. For
the control of the adult type of epidermoid as
comma from y to expithering does the outpoint the
tumor are necessary. Undiffice entired types require
at least one h if of that amount of irrad at on. In
cases of tumor within the oral cavity the maxim mose which can be delivered to the neoplasm with a
a period of three weeks by external irradiation alone
its 3 slane; by them aboses. Since it is amount of irrad
diation is not a fifteent for chinical cure the inter
stitual impliantation of radium is necessary.

Skin cancer unless extremely advanced or unless the tumor bed has been altered by repeated recur rences should be treated preferably with radium. In all except the most superficial lesions heavily filtered radium at a distance of from r to 3 cm. gives the hest results.

At the Memorial Hospital carcinoma of the mu cous membranes of the mouth nose and throat is treated by external irradiation with radium or the A rays or both over the primary growth and the implantation of gold filtered radon seeds into the primary tumor. The cervical nodes unless palpahly involved are treated by external irradiation. The palpably involved node of the adult type of epider moid carcinoma when unilateral and with an intact capsule is treated by complete unilateral dissection plus the implantation of radium into the wound in such a way that all suspicious areas will be heavily irradiated Unilateral nodes in which the tumor has extended through the capsule and all bilateral nodes are treated by surgical exposure under local an'es thesia and the implantation of radon seeds. Metas tatic nodes in undifferentiated types of carcinoma are treated by irradiation only

Extrinsic laringeal cancer which is always inoper able is treated by external and interstitual irradia iton. In a few highly radiosensitive types the Virays alone may cause complete regression. Intrinsic laryingeal cancer although operable in a certain per centage of cases is treated preferably with radium at the Memorial Hospital. External laryingotomy is done and the radion implanted directly into the

growth

In the treatment of cancer of the cervix of the uterus radium is the agent of choice. In operable cases of cancer of the corpus hysterectomy is the best procedure

Cancer of the bladder is treated preferably by suprapulic cystotomy with direct implantation of radon. In cancer of the prostate radium treatment produces greater palliation with less hazard than

operation

Ouestonably operable cases of cancer of the breast and breast cancer in the aged are treated better by irradiation than by operative procedures. The pal lative effects of irradiation are probably greater in breast cancers than in most others.

The interests of the patient with cancer are best served when the surgeon working in cooperation with the pathologist and the physicist is thoroughly familiar with irradiation and therefore able to combine the necessary operative treatment with irradiation therapy.

C D HAMPINEW MD

De Quervain F Intra Abdominal Radium Sur gery (Zur intra abdom nalen Radiumchirurgie) De 1s he Zischr f Chir 1930 ccv 387

Inoperable sarcomata of the retropertoneal the successfully by the intrapertoneal insertion of the omentum mesentery and spleen can be treated successfully by the intrapertoneal insertion of radium needles. An attempt at such treatment is

justified also in cases of tumor of the kidney growing toward the andominal cavity

The tumor is exposed through the abdominal cavity and radium capsules with long guide threads are inserted into it. The guide threads are brought out through the abdominal wall with the help of drains if these seem desirable and after a sufficiently long period of activity—from three to even days according to the variety of tumor—the radium is drawn out by means of the threads. If necessary the treatment may be repeated several times at intervals of from six to eight week.

In the case of a fifty seven year old man with a sarcomt in the left hypochondrium which was larger than a man's head complete disappearance of the tumor was obtained and five years later the patient was in good health. In the case of a thirty seven year old man with a large glandular meta stasis from a seminoma near the spine the tumor disappeared completely under treatment with ra duum needles plus deep roentgen irradiation and after fourteen months the general condition was good E Kornic (Z)

#### MISCELLANEOUS

Regaud G The Radlophyslological Principles of the Radiotherapy of Cancer (Sur les principes radiophysiologiques de la radiotherapie des can cers) Acta radiol 1930 xi 455

In man there is a radiophysiology common to normal and cancerous tissues which is in contrast to the radiophysiology of vegetable cells bacteria

and the ova of lower animals

Irradiation acts in two ways on tissues which are more or less sensitive (t) by everting a direct effect on the more sensitive cells (of value in the treatment of malignant tumors) and (a) by everting an effect on the vasculoconnective tissues which nourish these cells (of value in the treatment of chronic inflamma tions and as palliative treatment of cancer)

The radiosensibility of both normal and cancerous cells is dependent upon multiplication of the mother cells (secretory function is antagonistic to radio

sensibility)

Ideal radiotherapy of cancer utilizes the favorable interval hetween the radiosensitivity of the can cerous tissues and that of the normal tissues. Irradiation extending beyond the margins of serious lesions of the connective tissue and vessels may be followed by early or late necrosis.

There is no single dose which is curative of all carcinomats or all sarcomata. The variations of radiosensitivity are dependent upon the histophysi ological characteristics of the tumors. Efforts are heing made to modify the radiosensitivity of tissue artificially. Time is an important factor in radio ensitivity. When the treatment is divided and spread over a long period of time, the therapeutic interval of radiosensitivity is decreased whereas when the treatment is given over a period of moder at length the therapeutic interval of radiosensitivity.

1 increased This has been demonstrate I by recent e periments on the testicle of the rabbit There are cancers which as regards the factor of time behave

I ke the fertile seminal epithelium

In the radium Institute of Paris there has been a

tendency since 1020 to prolong the time of treatment both in roentgen therapy (Coutard's procedure) and in radium ther by The results have shown a de crea e in the local and general react on and improve ment in the effect of the treatment

Radiophys ol gy demonstrates that there are many gra lati as bet een entirely electi e rad o therapy and diffusely caustic rad other py foll wed by radionecross of the reas a treated

Lamb n P Anæmias Caused by the Ro ntg n Rays and Radi Active Substanc s (L s ém \ tls orp rad a tf) , i ∈ p le Reblad d 030 63

In se ral c untries examination f the blo 1 of to kers ti the roentgen rays n1 radio active subst nees has sho in thit many such vorkers de veloped changes in the blood picture commen urate

ith the d gre of their e p sure. The tall est sign s usually in derite leuc pæni, ith an actual le-cres in the p oport on of polymorph nucleurs and a relati e increa e in the pr portion of lymphocytes Occas onally there san ass cateleosinoph ha ran abs lute mon nucle s s thout a leucon ema

As rule the ed cell count is n t changed Ho ever if the exposure i ufficient anæmia de elops Rarely erythrocytosis results Polkilocytosi and anisocy tosis have been reported infrequently

Stu hes of the blood of irradiated pat ents do not entirely agree but Lamb n concludes that a d cre se in the red cells i h ch only exceptionally e ceeds I 000 000 is the usual result of irradiation of patients s he have no disease of the hamatopoietic system such as leukæmia

T ents seven cases in hich the blood changes resulted fatally have been reported. In a cases they were caused by the roentgen rays and in 22 by rad o active substances One of the earliest victims was the I rench radiolog st Dominici The di case usu ally t kes the form of a progressive anaplasti an emia s hich terminates fatally in fr m thr e to s t months Bleeding from the gums is often ob served The accompanying leucopænia is charac terized by almost complete absence of polymo phonuclears being therefore a truly agranul cytic 53 ndrome

Ino cases of lymphatic leukæmia and 4 ca es of myelogenic leukæmi developing in orkers with the roentgen rays or radio active substances have been reported

Freatment by tran fusion an lother measures h s proved ineffective in checking the disea e Lamb n advises frequent periodical examination of the I lood of norkers with the roentgen rays and radio acti e substances

The article 1 supplemented by an extens e C D IL AGE SE MID l ibhograf hi

## MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Desjarding A U Irradiation as a Means of Differentiating Certain Varieties of Tumors Med Chi North Art 1930 VIV 619

Numerous and extensive experiments on animals and abundant clinical evidence bave established the fact that every variety of cell in the body and every organ or structure composed largely of one variety of cell has a specific sensitiveness to roentgen and radium rays The findings of many investigators have shown conclusively that the most sensitive cells in the body are the lymphocytes in the spleen lymph nodes intestinal lymph follicles bone mar row circulating blood and thymus Next to the lymphoid tissues in sensitiveness are the cells of the basal epithelium of the seminal tubules and ovarian follicles All other cells of the body likewise have a specific radiosensitiveness each variety re acting to a given dose of roentgen or radium rays in a characteristic manner and at a characteristic Knowledge of the specific sensitiveness of rate different cells often enables the expert radiologist to distinguish certain tumors by the rate and degree of their regression after exposure to the rays

To those who are unfamiliar with the influence of irradiation on normal tissue this doctrine of the specific sensitiveness of cells may appear revolutionary but its validity with reference to the more sensitive kinds of cells can be demonstrated at any time

Microscopic examination by a competent pathologist is justly recognized as the most accurate means

of identifying the character of tumors

The neoplasms most readily identifiable by the characteristic and exceptional sensitiveness of the lymphocytes of which they are largely composed are those which develop in the lymphatic or by mighoid structures generally. The reaction of such tumors is usually so great and corresponds so closely to the reaction of normal lymphocytes that irradiation constitutes a valuable therapeutic test and makes possible the recognition of such tumors even without consideration of their clinical characteristics.

Desjardins reports a case of lympho epithelioma originating from the gastro intestinal tract. The recognition of the tumor was based mainly on its special reaction to roentgen irradiation.

The only tumor which approaches the lympho blastoma in susceptibility to irradiation is the pure embry onal carcinoma or seminoma of the tests but the clioical features of the two kinds of tumor are so well defined that confusion is seldom possible Designations reports such a tumor which regressed

completely following a course of roentgen irradia

Another tumor in which the reaction to irradiation is sufficiently characteristic to serve as a valuable diagnostic sign is the true benign juint cell tumor of bone. The diagnosis of giant cell tumor involves a grave responsibility because certain necolvisms of this type contain malignant elements.

Most malignant tumors of bone are only slightly or moderately susceptible to irradiation. Few such tumors are ever cured permanently by any method of treatment. Nevertheless in this group also the reaction to reentgen or radium rivs may sometimes help in establishing the diagnosis. In a case reported reentgenographic examination of the lumbar spine and pelvis revealed a tumor involving and destroy mag much of the left him which appeared to be a giant cell tumor or an endothelial myeloma. Following a course of irradiation all of the symptoms disappeared and except for occasional slight sore ness in the back and shoulders the patients condition bas since been excellent.

In conclusion the author says that the expert radiologist can render valuable assistance in the recognition of certain kinds of tumor and that such assistance is not confined to the varieties of neoplasm which have been described

Ewing J Problems of Melanoma Brit W J 193

The nævus cell is derived from and belongs to the peripheral sensory nerve end organs. It is uncertain whether this cell is neuro eutodermal or mesoblastic. The nævus cell in the nerve nævus produces chromatophores. The adult chromatophore is able to exist and function independently of the nævus cell.

In the epidermis there are slumbering unpig mented and wandering pigmented chromatophores and probably also other specialized cells similar to nævus cells belonging to the intradermal nerve end apparatus. The cells of the latter type may be the Merkel Ranvier tactile corpuscles

In the development of melanoma exactly the same processes seem to occur and the same relations between new us cells and chromatophores seem to be exhibited in the epidermis as in the nerve new us of

the derma and subcutaneous tissue

The tbeory of the epithelal origin of the nævus cell and chromatophore bas always been seriously questioned by most pathologists and in the light of the new evidence has hecome less acceptable. All of the appearances in the epiderims suggesting the active participation of epithelium in melanoma may be referred to the growth of spenalized cells belong into the nerve end apparatus. However the

histological evidence in this field is complex and inconclusi e Melanoma has important relations to neurofibromatosis This fact supports the view that the cells in melanoma are of neural one n and is difficult to reconcile with the theory of ep thelial MANUEL E LICHTENSTEIN M D origin

Tre es N and Pack G T The Development of Cane r in Burn Scars An Analysis and Report f Th rty Fou Cases S g Gy & Obt or 740

From a study of 34 cancers developing on burn scars which were found among 2 500 skin epitheli omata the author draw the following conclusions

Though females are more liable to burns at the extremes f life (probably because of female attire) the incidence of cancer developing in burn scars is higher in males because in males burns are more frequently subjected to irritat on from infect on trauma and neglect Epitheliomata developing in burn scars occur in reg ons where burns are frequent as on the scalo and extremities and here trauma or motion may be superimposed as on the elboy and in the groin ather than in regions of the body v here skin epitheliomata are common Sometimes in older persons 1th atrophic ker totic skin and frequently in quite supe ficial burns cancer de elops ithin a year after the injury This is the so called acute wound cancer

The us al chronic scar cancer occurs years after the burn (the age of the scar is more important than the age of the patient) usually in the t ght dense scar hich is abraded by relatively slight injurie

It is usually of the squamous type

F bross especially about the blood vessel as apt to interfe e ith nutrition and poor nutrition favors ulce ation. The epeatedly regenerating integument becomes p ogre si ely inferior persistent stimulation to the m ginal epithelium favors epeated gro th and repai and constant frust ation may lead to loss of tissue estraint and eventually to cancer

Cancer begins the margins of the ulcer usually as a flat nd rated nultrating and ulcerating growth w th late nyasi e tendencies The cells usu ally show adult differentiate n of Grades 1 and 2 Growth 1 sl and the form it on of sisceral metas tases occurs late

Bu ns should be cared for to pre ent infection Rapid epitbel alizat on sh uld be promoted and skin g afting esorted to ea ly where repair is slow or cess of sc r tis ue will de elop If pers stent ulcerat on or degen rative changes en ue r dical excision of the scar should be done

As a rule small ba al cell lesions may be treated sati factorily the havily filtered radium at a ds tance In four ases of latent scar cancer and four of acute ound c neer a cure w s obtained by irradia tion alone and in two thers radi tion gave a good result after su gc v h d failed If the lesio s are radiosensitive u gical intervention must be adical and preceded by a adiat on

HRR C SALTS I MD

#### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Bentnall C G The Medical Teatment of Anthrax La et 93 cc 1 74

The author reviews the literature on serotherapy of anthrax discusses the use of salvarsan as an adjustent and the inject on of 10 c cm of serum at the site of the lesion and presents a table comparin eleven cases treated surgically with ele en case treated medically These cases showed a seasonal increase in the incidence of the infection in the months from December to May In the surgically treated group the average stay in the hospital was th rts two and e ght tenths days whereas in the medically treated group it vas nine days. A cure as obtained in eight of the surg cally treated cases and in nine of the medically treated cases In all of the cases anthrax bacilli were found in smears and cultu es during the treatment. The serum was usual ly given intravenously but in some cases intra muscular or intrathecal injection was substituted for or combined with intravenous injection

The eleven med cally treated cases are repo ted briefly These showed that the bacterial conte t of the lesson is not a reliable inde of the effect of treat ment and that the term pustule is a mi nomer when applied to the site of infection in anthray The medical treatment c assisted of the administratio of from 60 to 200 c cm of antique of to 09 gm of stabilars and daily

W \ Rowley M D from 60 to 200 c cm of anthray serum and of f om

#### Jop on J J and E man J Tle Serum Treatm nt of B ctermmla Due to th Ilem litte St ep tococcus A S £ 101 C 0

The authors summarize their e perience ith the use of polyvalent anti streptococcus serum in the treatment of by tera mia. They differentiate t o types of bacteræmia the shower type and the massive type In the former positive blood cul tures re obtained either before or immediatel after surgical intervention for an acute p imary focus such as dr mage of an infected hand or the remo al of infected thrombi from the lateral sinus Cultu es on blood agar plates show but f & colonies of organisms In such cases the natural delense mechanism is usually capable of destroyin the bacteria without further therapeutic measures. In the latter blood cultures reveal hu dreds of colonies of bacteria per cubic centimeter of blo d nds rgical treatment of the primary focus does not I ad to abatement of the symptoms Under such conditions of over thelming infection the natural defense mechanism is rap dly exhausted

Tables summarizing forty thre cases of bacter æmia are presented. These show that of twenty four patients t be received no serum or only ery small amounts of serum (less than 100 c cm in four cases) five (to enty one per cent) recovered a d nineteen (79 per cent) died whe eas of a similar group of nuncteen who received from 100 to 750 ccm of polyvalent anti streptococcus serum fifteen (79 per cent) recovered and only four (21 per cent) died All of the fifteen patients in the second group who recovered presented the massive type of infection

The authors have found that serum and chemo therapeutic agents have no heneficial effect on primary or secondary foci of infection. Therefore if such foct are demonstrable and accessible they must be treated surgically

The best results of anti streptococcus serum are

obtained when the serum is administered early and in sufficient quantities intravenously before the development of secondary focu or thrombs and marked degeneration of the parenchy matous organs

MANUEL E LICRTENSTEIN M D

D Aunoy R and Beven J L Systemic Blasto my cosis J Lab & Clin Med 1930 EVI 124

The cases of systemic blastomy cosis seen at the Charity Hospital New Orleans in the period from 1906 to 1929 are tabulated and the pathological findings in a typical case are described Because of the similarity of the gross and microscopic lesions to those of tuberculosis demonstration of the causal agent is necessary before a positive differential diag nosis can be made. In the cases reviewed pul monary lesions comparable to those of Miller's Types 1 2 and 3 of tuberculous bronchopneumonia were found J FRANK DOUGHTY M D

Acton H W and Rao S S Factors Which De termine the Differences in the Types of Lesions Produced by Filaria Bancrofti in India Indian M Ga 1930 lxv 6 0

The manifestations of filarial infection in India vary considerably. In Cochin elephantiasis is the most common sequela whereas in Allahabad the chief signs of the infection are lymph varix and chyluma In Cochin where the infection is most frequent the country is low and flat the rainfall is heavy the humidity is high (81 per cent) mosqui toes (Culex fatigans) are very numerous and the length of the mosquito breeding season is longer than in Allahabad The Culex fatigans is believed to be the transmitter of filarial infection in India

The clinical manifestations of filiariasis are de pendent upon the anatomy of the lymphatic system draining the region bitten by the mosquito. In an area of the country in which the infection is only moderately prevalent the intensity of the infection is moderate and the migration of the embryos into the lymphatics is not so heavy as in areas of the country in which the infection is more common Irritation and blockage of the low lymphatic glands are comparatively rare. As a rule the blockage occurs in the lymphatics near the abdominal aorta hence hydrocele is usually the earliest sign of the in fection Continued infection and irritation result in cedema of the legs M HERBERT BARRER M D

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## SURGERY OF THE HEAD AND NECK

#### Head

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115 Anat Record 1930 tlv1 229

Heat dbl d ndbloodd r at exfore its at on of the ham lobs phile of a sms R & Sr ay I Lab & Cl M d 1930 vi 166

Tytloyt dm ntato test in tuberculo s a study a yu o yu am miato rest in tuberculo s a study of two tho s de s A L BA YAIA dS V V D RSOV V ch Int VI d 193 xl 787 Some bl de dto s J P Major Med J Austral

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#### Reticulo End thelfal System

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#### I vmph Glands and Lymphatic Ve sels

Mile s d sea d the Milez syndrom the tratm t by a rad tion T Leterra a d i F lace am J Rontg n I 193 xxi 49 [274] I oc lat o with the blood and u me of two p t ent llodgk s d M Loerer and L MARE B M Loerer and L MARE B II t mem Soc med d h p d l'a 103 xl 444 [27]
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## SURGICAL TLCHNIOUE

Operative Su gery and Technique Postoperativ Treatm nt

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R prt ry complication a following urgical op rat of D C tens mead Ca d M A J 193 xx 64
P stor craft pulmon ry byp til t R H Over P storerati pulmon ry hyp tilt R H Ov H L J im M i 1 193 cv 484 [2] Th t l gya d treatm nt of p st perat ega t il [276]

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Th h l g f t emat 11 A t 1 ton
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193 cct 3

Antiscrite Surgery Treatment of Wounds and Infections

pure n pot therm delgia pects W De tsche Zteh fd ge g nehtl Med 93 Fat 1 CREUT

433 545 In g L ne H Nieden Chiru g 93

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chen med Wchnschr 1030 1 857

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SON Minnesota Med 1930 viii 775
Parassin wax treatment of hurns C K Cook Wiscon

sin M J 1030 TXIX 600

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350

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## PHYSICOCHEMICAL METHODS IN SURGERY

## Roentgenology

The hitory f tg 1 gy I S TROSTLER III M J 93 I 334 t t g st dy n tge r y f m m m ry
H G McC uick N w Olans M & S J 4 93 kx 300 Rdlgytpg adft P Ry Soc Md Lod 93 J 1/1 1/1 1/10 sow ECJE M. N But Th p g f X ytch q Il ghm il mp g tech q e J D La son Rad of gy 574 votetspata BilRdlogi Atm witch of u ld g R B TAFT Rad of gy 93 TV 59 Th ff t f 73 l m fo tg gy nhmge ndm Eyd Wirt GRd I gy 93 x 579 Rd phyl thn mol theatbi f tg n hmge mdmET phyl the mai m L C lim d og 84 [2 Rdimd [280] The system is the body of the X yp tect \ Bou ers nd J H \ n De Teuk B t J R d l 93 53 amdelgl se A dBRD ason JM hga St te M Soc Lta 764 93 704 Rp t th frad m dd p the py\ yfr tse y p t l M wth pe f t thep blm fth m ll mm ty ll th 1 1 f HNRdlgy 93 xv 585 Ltbt thet Ith Xry t fms hyml ng A Va E va ad M C o cc A Rd l m d 93 88 Th p m f d l g al Th prm f d t grat f matg t m G Fo ELL Z tralbif Ch 93 p 6

#### Radlum

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#### Miscellaneou

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## MISCELLANLOUS

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# International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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#### CONTENTS

1	Index of Abstracts of Current Literature	111 V11
П	Authors	V 111
ш	Abstracts of Current Literature	313 391
ΙV	Bibliography of Current Literature	392-416

# CONTENTS-APRIL, 1931

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		JACQUES L The Treatment of Postoperative Tetany with Special Reference to the Adminis tration of Irradiated Ergosterol	
RANKIN F W and PALMER B M Postoperative		transit of irradiated Ergosteror	3
Parotiditis Treatment Without and With		SURGERY OF THE NERVOUS SYSTEM	
Radium		Brain and Its Coverings Cramal Nerves	
Eye		DAVIS L Surgical Indications in the Treatment of Skuli Fractures	3
SPRATT C N Intra Ocular Foreign Bodies SMITH H G BARKAN H AND BARKAN O Vaso	313	Fax T The Management of Tumors of the Posterior Fo sa by the Transtentorial Approach	3
motor Glaucoma HOLTH S Indencless Cum Indotomia Mendionali	313	ALAJOUANINE T PETIT DUTAILLIS D BERTRAND I and SCHMITE P A Comparative Study of	
An Operative Method Both in Acute and in Chronic Primary Glaucoma DULL ELDER W S The Nature of the Vitreous	3 4	Four Tumors of a Different Histological Nature in the Rolandic Region and the End Results of Their Surgical Removal	3
Body	3 4	Pieri G Surgery of the Sympathetic Nervous Sys- tem The Treatment of Neuralgia of the Tri	3
WILMER W H Chronic Ret obulbar Neuritis	316	tem The Treatment of Neuralgia of the Tri facial Nerve	3
Nose and Sinuses		Spinal Cord and Its Coverings	
AUBIN A and MADURO R The Pseudotuber ulous		BRUGEAS Two Observations of Lumbosacral Spina	
Forms of Tertiary Syphilis of the Nose and Pharynx	3 6	Bifida	3
Weille F L Asthma VI The Pathology of Allergic Tissue as Seen in the Nose and in the		LEVEUF J Two Cases of Spina Bilida with Solid Tumor	3
Accessory S nuses	3 7		
BYRD H and BYRD W Sphenopalatine Phenom ena The Present Status of Our Knowled e	317	SURGERY OF THE CHEST Chest Wall and Breast	
Mouth		NEAL M P and SIMPSON B T Disease of the	
BIRKLET G E Radium Treatment of Buccal Car		Male Breast	3
cmoma BARBARO Cleft Palate	317 318	Rousser J The Anatomical Structure of the Human Nipple and Its Patholo ical Con- sequences	•
Quick D Radium and Surgery in Cancer of the Tongue	318	LEE B J Significant Problems for the Obstetrician in the Field of Mammary Cancer	3
Soerensen J The Surgical Treatment of Carcinoma of the Tongue	319	McGLANAN A Blue Domed Cysts and Cancer of the Breast	32
•		D AUNOY R and WRIGHT R W Sarcoma of the	32
Pharynx		Breast	32
BARCLAY A E The Normal Mechanism of Sval lowing	320	Trachea Lungs and Pleura	
Neck		VAN ALLEN C M and LINDSKOG G C Obstructive I ulmonary Atelectasis Problems of Patho	
		genesis and Clinical Management	3
SATTLER H The Pathological Anatomy and H s tology of the Thyroid Gland in Basedow's Dis case		CONTLOS P N and BIRNBAUM G L Alveolar Gas Exchanges and Atelectasis The Mechanism	
MAYER D and PUERSTENHEIM A How Closely Are Certain Forms of Tbyro d Arim and Collo d Related to the Clinical P cture of Basedow's Disease?		of Gas Absorption in Bronchial Obstruction PHILLIPS E W. Hydatid Cysts of the Lun	32
		Review of the Reco ded North American Cases  LAMBRANZI M The Radiolog cal Aspects of Pul	33
CURTIS G M The Blood Supply of Human Parathyro ds	321	monary Tuberculosis Associated with Surgical Foci	33
- y u -			

OBERT E J The Mechan co of Collage The capy and lets Indeed cost as Ob revet as a pro-CES ALES W. The Treatment of Pulm party T berow loss by Thoromoph sty	331 332 333 333 333 333 334 334 334 334	PRAT D Intestinal Occlus in 1 om Apprendicities PRAT D extractions and Divertualities ROST Vewer knowledge if the Path log cal Physical Rost Vewer knowledge if the Path log cal Physical Rost Vewer knowledge in the Practical Therapy Consister A Gace I M and Cortive R. A. The Value of Drugs in the Relief of Brus An Exp intentil Study Schoolster J Ferdundenties SCHOOLSTAR A REACH L FREDRICK J C M VER J and PARVER M IL Subtotal Gas rectory for Do Jenat Ulert BREICH J A ROST VON E C and PASTICO G F Colubra in Treatment for Chronic Ulerat to Colubra in Colubra in the Participa A Comparati J Study of the Treatm in and the lost peratic clusse DEATH J B Cancer of the Recture Hundre L Study of the Treatment and the Lost peratic clusse DEATH J B Cancer of the Recture Hundre L Study of the Treatment of Cancer of the Recture in Bradium Articles Michael Study of the Treatment of Cancer of the Recture in the Radium Articles All Restricts of on Carc of and of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Restricts of the Carc of the Recture in the Radium Articles All Re	34 34 34 34 34 34 34 34
Historilaneous  DANSSON T C Int talk rase Tumors R port of Case  DE x W Th S sery of Ther on and I tra ther o'T mor  SURGERY OF THE ABDOMEN	336 337	Liver Gall Bladder Panctess and Spleen  Lever Gall Bladder Panctess and Spleen  Lever of H and McCazzer G To Occur  r ce of White Bile in Gall Stop Obstitute bon, botte of a case W the H I I log of the  locar A R The Fathog n sis f the F rms of  Jasudote	14
Abd musal Well and Pentoneum Fafett I 5 and Bleit C L Granul ma In gu le lus Pr enc n Can da hiscur off H P umboocout fenton tes Pathurat B O M sentene Lymph Prets as an thorn I Focu I fall cou a bujustrat of I foce I the J da C nn e g Lenk better in the So-Called S and ry D a es Gastro Intestinal Tract	338 338 3 9	Ro LANDS R P Obstructs of Jundee  MILER S R and WATERS C A Intra 2002 Cholecystog aphy and L et Pun too Deter mention Clinical and Receitige object I had PELDMAY M Ch lecystography An Ac lysu i 500 Cases Observed by M ans of th Oral Mitch d G and Ilater I B R nig a Phys i gical Studi s n th Gall Bladd Experiments with L p od I and Bromin I Light a th Dog	35
SCHOPNE USE L M lig. nt Turn is of the D gester Tel.  BOSTOV L V G at Hæmo sha Du to Familial  Tel n'n cta is  DE TONI G G tr duodenal UI ers in Children  JAROT V A Th. D t inc T-atan it of Rou d	339 339 339	Bessieves F Th Dangers of Operation on the Bible Ducts Their La see and Cutt I with Special C dration of Post peratic Li cr. Dit 3	35
Ulcer I th Stoma h and Du denum Dunn Its Acut Stage Berg A A The Mortal ty and Late Results of Subtot I G tr tomy for the J ad cal Cure of Gastn a d Duoden I Ul r HABERIE H vov Refl chons on Our F lute in	340 34	LADD W. E. Th. Acute S. b. cal. Abdomen in Childre  GYNECOLOGY  Uterus	35
Gz tric and D ode 1 Ul  AR 10UR J AL 3 r Curvatu e Gast oplasty	341 34	FRANKEL L C rv cal Plasts s in Particular That of Sturmed i	35-

Given Intravenously on Experimental Uterme		GENIIO URINARI SURGERI	
Infection in the Dog	354	Adrenal Kidney and Ureter	
HINSELMANN H The Diagnosis of Uterine Car	354	HARTMAN I' A AARON A H and CULF J E The Use of Cortin in Addison's Disease	364
ZWEIFEL E Bleedings After the Menopause as Signs of Carcinoma of the Uterus	354	Shapren I J and Veseen L L Untoward Results in Bilateral Pyelo, raphy	364
Adnexal and Periuterine Conditions		GAUTHIER C and CLAVEL C The Gastro In testinal Type of Hydronephrosis	364
Kovács F Malionant Tumors of the Ovary	355	JASIENSKI J So Called Tuherculous Nephritis and Tuberculous Bacilluria	365
External Genitalia		LINO G Serous Cysts of the Kidney	365
ZUBRZYCKI J The Formation of an Artificial Va ina in a Case in Which the Uterus Was		BUSSER F Epithelial Tumors of the Kidney in the Adult	366
Present	355	RETSCHMER H L Leiomyoma of the Kidney	366
Miscellaneous		vation of the Kidney and Functional Opera	
Young J Menstruation and Irregular Uterine Hæmorrhage of Ovarian Origin	356	tions on the Kidney Denervation Periarterial Sympathectomy and Decapsulation	366
BÉRARD and CROIZAT Endometrioma of the Sigmoid in a Patient with Bilateral Serohamorrhag c	<b>9</b> 4-	WALTERS W and WRIGHT W Operations on Solitary Kidneys and Ureters Report of Fifty Two Cases	
Cysts of the Ovary	356	Two Cases	366
Sellheim H Advances in the Treatment of Female Sterility	356	Bladder Urethra and Penis	
<b>,</b>		HUNNER G L Neurosis of the Bladder	367
OBSTETRICS		Pieri G Clinical Contributions on the Surgery of the Sympathetic Nervous System The Treatment of Tuberculous Cystitis	367
Pregnancy and Its Complica ions		Treatment of Tuberculous Cysticis	307
Kuncz A The Importance of Age in the First	358	Genital Organs	
Pregnancy Thoms H The Determination of Fetal Maturity in Utero	358	LEHMANN J The Origin of Tuberculosis in the Male Genital Organs	367
SCHNITZER H Placenta Prævia	358	GRINDA J P Calculi of the Prostate	368
Тотн I Hæmorrhage at the End of Pregnancy and Preceding Delivery with Special Consideration of the Treatment of Placenta Prævia	359	SURGERY OF THE BONES JOINTS MUSCI	ES
Kermauner F The Management of Toxermas of Pregnancy	360	Conditions of the Bones Joints Muscles Tendons	Etc
HILLIS D S The Diagnosis of Contracted Pelvis	360	Aurses A H Skeletal Metastases from Carcinoma of the Rectum Report of Eight Cases	
by the Impression Method  Labor and Its Complications	300	VARELA M E The Circulation of the Bone Mar row and Considerations on Certain Problems	349
GINGLINGER A and PINSAN R. Dilatation of the		of Histophysiology	370
Cervix Under Spinal Augsthesia at Term	361	Magnitude A Post Traumatic Ossification of Muscles	370
VAUX N W The Method of Delivery and End Results of 212 Cases of Occuput Poster or		CARNETT J B So-Called Subacromial Bursitis	370
Position	361	Nové Josserand and Pouzer Flail Scapula Fixed by Boltin with the Rih	371
Wu L C Separation of the Symphysis Pubis Complicating Labor	361	OSTERGAARD C L Osteochondritis Dissecans of the Elbow	371
Puerperium and Its Complications		LITTLEJOHN C W B Low Backache	371
TRILLAT MICHON and PONTHUS Puerperal Sup- purative Ovaritis	361	ZAVOLI R Scoliosis and Myelitis from Compression	37 r
Miscellaneous		JEPSON P N and BRAV E A The Manipulative Treatment of Chronic Arthritis of the Spine	372
LEE B J S gmificant Problems for the Obstetrician in the Field of Mammary Cancer	338	LEDDY E T The Roentgen Treatment of Metas tasis to the Ve tehræ and the Bones of the Pelvis from Carcinoma of the Breast	372
Oxley W H F The Organization and Methods of Practice of the East End Maternity Hosp tal	362		
PAUCOT H The Influence of Hereditary Syphilis of	-	Surgery of the Bones Joints Muscles Tendons	
the Progenitors on the Product of Conception	362	VERRALL P J Some Amputation Problems	373

374 Ant septic Surgery Treatment of Wounds and Infections

375 Guitlain G a d De Size S Cons derati as Re ga d g th Chancal C urse a d th T eatme t

 $\mathbf{v}_{1}$ 

ROLLO S The Fat of C rtil ge Tra pl ts

TAVERNIER L Th Robertso La all Op rat on
1 Joint T berc los s

Mckin L II Con t m in th Teatment f

lict chockes o of the light	375	of a S ve e Case of T tanus Wh h Was Cured	384
Vignard and Bérard Fo C s s of Beg ang C tal in T ted by Cu trage a d Filling		Badgg Mat rials a d the Necessity fr	
Late R ults lite Sixt en Ele en Ele e and		Unif rm St religation	385
Three Ye is	376		0.3
VALLOVE D Late R sults of Rec struction of th Ante o Crucial Lg m tad th L ternal		Anæsthes a	
Lateral L g me t of the knee w th apon rotic		Pe Ce t N can S lut on with Sp al Co	
Flaps	376	Pe Ce t N can S lut on with Sp al Co	-0
Frankis and D closestone		ra ratio bi the blood i ess e	38
Fractures and D slocations			
ELIASON E L a d Ware it V M M Patho- log cal I ct es	376	PHYSICOCHEMICAL METHODS IN SURGE	RY
JULARA E O teosynthe	377		
Sour D T um tic Lesio of Ce tain B es of		Roentgenology	
th \\nt	377	Lam ranzi M Th Rad ol g l A pects of P l m ry Tul reul is Assoc t d with S rg cal	
JAKI J Contributions on Injuries to the Spine ROW-ILLOS MAISO NET a dSALINIER Spirat s	378	Fo	331
a d L xati s of the Pel is	378	BRO IN S a d REINECKE II G The Roent	
	••	g of greal St dy of the Sup n a d Post no Mediastin m	334
SURGERY OF BLOOD AND LYMPH SYSTE	MS		334
Blood Vessels		Paccoast H k Poe tg 1 gy f th Thymus in Infa cy d the D ff tal Dag os s f Fa	
Tipy II L Symptom and Path ge ess of the		Larrage I W Kee tgen long f th App dix	334 346
Hem bgcD thesa	380	M LLER S R nd Waters C 1 I Im e 0	340
WRIGH A D The Tentm at f Var os Ulcers	380	Chol cyst graphy a d L er Fu cuo Dete	
brise Th I tro et t of th Pa in Em		min ton CI cala dRe tg n I gical V lu	35
bolism of litte es S pplys g Large Ar s of the E tr mitie	380	F LOWEN M Ch legyst graphy in An lysts of 500 Cases Ob r ed by Means of the Oral	
	•	Meth d	351
Blood Transfusion		REWBRIDG A G a d HALPERT B Ro : Phys I g cal Studies o the G I Bladd	
ISAACS R Blood Cha ges in the Le kæmins nd		Prope me to the Lp dollard Brammol Light	
the Lymphomata a d Th Baing n R t g n Th rapy	38	o the Dog	351
SOEDERLLIND G Blo d Tra f in Su gery	38	BI teral Pv 1 ctaphy	364
SOEDERLIND G Blo d Tra f in Su gery	38	BI teral Py 1 staphy	304
SOEDERLIND G Blo d Tra f in Su gery  Reticulo End theli l System	38	Biteral Fy 1 staphy  LEDDY F T The Rolling Treatment of Metas tasset the Set brown of the Ped is	
Reticulo End their 1 System  Mag rulo A I flu of th Cond t n f th	38	Biferal Pylyaphy LEDDY F T Th Roty Treatm at of Metastasst th Verbra dth Bon fthe Pelis I m Carol ma fth Breast	372
Reticulo End their I System  Mag ruzo A I flu of th Cond t n f th R t I E dothel I Sy t m th Tak ng of		Biteral Pylyraphy Leddy PT T The Roty Treatment of Metastasts the Verbins of the Bon Scheed is I m Care mass the Breast  Lakes R Blood Cheges the Leekamas of the Lymphomata and The Bengon Roty	372
Reticulo End their 1 System  Mag rulo A I flu of th Cond t n f th	38 382	B! feral Fy 1 traphy LEDDY F T Th Ro tg Treatm at of Metas tas si th Ve 1 bro d th Bon f the Fel is I m Carca ma ith Breast Issues R Blood Ch gest the Le kemias d the Lymphomata nd Th Be ng on Ro! gen Th py	372 38
Reticulo End their I System  Mag ruzo A I flu of th Cond t n f th R t I E dothel I Sy t m th Tak ng of		B I feral Py 1 suphy LEDRY F T Th Ro ig Treatm at of Metas LEDRY T T Th Ro ig Treatm at of Metas LEDRY T T Th Ro ig I m Care ma f th Breast LEANCE R Blood Ch gest the Le kemuss d the Lymphomata at Th Ben gon Ro i gen Th py DEOCLES L T lest ever ig ography	372
Retuculo End their 1 System  Mag Tudo A I flu of th Condin I I th  Rt   E dothel   System th Taking of  It moplast cO us G its  Lymph Glands ad Lymphatic Vess is  PRIRAM B O Me nite c Lymph gis as a		B! feral Fy 1 traphy LEDDY F T Th Ro tg Treatm at of Metas tas si th Ve 1 bro d th Bon f the Fel is I m Carca ma ith Breast Issues R Blood Ch gest the Le kemias d the Lymphomata nd Th Be ng on Ro! gen Th py	372 38
Reticulo End their I System  Mac vino A. I fit of the Cond in f the Rt I E Gothel I System the Taking of If morplast cO is to fits  Lymph Glands a d Lymphatic Vess is  Per Raw B. O. The enter C Lymph git as a Abdom I Pics f i fet in Sbii II on I and Abdom I Pics f i fet in Sbii II on I was a second to the condition of the Condi		B I feral Py I supply LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm I m Carc man it he Breast LEAVES R Blood Ch gest the Le kemmas d the Lymphomata and Th Be n gon Ro i gen Th by DIOCLES L These root go graphly RATH \ Th D tub tan if E ergy in Deep P ig n The apy M Schen G The S gib L mut-of Tolera e	372 38 387 387
Retuculo End their 1 System  Mag Tudo A I flu of th Condin I I th  Rt   E dothel   System th Taking of  It moplast cO us G its  Lymph Glands ad Lymphatic Vess is  PRIRAM B O Me nite c Lymph gis as a		B I feral Py I suphy LEDRY F T Th Ro ig Treatm at of Metas LEDRY T T Th Ro ig Treatm at of Metas LEDRY T T Th Ro ig I m Care ma f th Breast LEANCE R Blood Ch gest the Le kemas d the Lymphomats and Th Ben gon Ro i gen Th py DOCLES L T lest eoro ig ography RATH \ Th D th b in f E ergy in Deep P ign The spy M SCHER G The S gle L mut-of Tolera e DOCAGE	372 38 387
Reticulo End their I System  Mac vide A I fill of the Condit n f th Rt I E Gothel I Syr m th Taking of If moplast cO is G fits  Lymph Glands a d Lymphatic Vess is PR END B O Me nic Clymph gib as n Addom I F cs I I fct n S bi I I Fentio all Ads a Co to glank between th S Call all S ndary D c C SNN E T I Lymph E udite d T bo	382 338	B I feral Py I suphy LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm LEDDY F T The Ro ig Treatm LEDDY F T The Ro ig Treatm LEDDY F T The LEDDY F T THE RO IG TO IG ROUGES L The LEDDY F T THE RO IG TO IG MINISTRA IN THE RO IG MINISTRA IN THE R	372 38 387 387 387
Retucilo End theli l System  Mac Tudo A I flu of th Condin f th R t l E dothel l System th Taking of If mophast C u of ts  Lymph Glands a d Lymphatic Vess ls  PRI ZAM B O Mente c Lymph gt as a Abdomi F c of lift in Sbit I I fento cal Adh s d Co to g Lank between the S Call d S adayy D e	382	Bit feral Py Lymphy LEDOV F T The Ro ig Treatm at of Metas LEDOV T T The Ro ig Treatm at of Metas LEDOV T T The Ro ig LEDOV T T The Ro ig LEDOV T The Ro ig LEDOV T THE RO IG THE RO IG LEDOV T	372 38 387 387
Reticulo End theli I System  Mag Tudo A I flu of th Condin 1 th R t   E dothel I System th Taking of If moplast CO is to fis  Lymph Glands a d Lymphatic Vess is  PRI RAM B O Menic C Lymph gu as in Abdomi F c of 1 ft cin Sbit I I ferito cal Adh o d Co is g Lank betwen the S call d S adayy D c C o san E T Lymph E ud te d Tho Tis	382 338	B I feral Py I suphy LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm LEDDY F T The Ro ig Treatm LEDDY F T The LEDDY LEDDY F T The LEDY LEDDY F T T T T T T T T T T T T T T T T T T	372 38 387 387 387 387
Reticulo End their I System  Mac vide A I fill of the Condit n f th Rt I E Gothel I Syr m th Taking of If moplast cO is G fits  Lymph Glands a d Lymphatic Vess is PR END B O Me nic Clymph gib as n Addom I F cs I I fct n S bi I I Fentio all Ads a Co to glank between th S Call all S ndary D c C SNN E T I Lymph E udite d T bo	382 338	Bit feral Py Lymphy LEDOV F T The Ro ig Treatm at of Metas LEDOV T T The Ro ig Treatm at of Metas LEDOV T T The Ro ig LEDOV T T The Ro ig LEDOV T The Ro ig LEDOV T THE RO IG THE RO IG LEDOV T	372 38 387 387 387
Reticulo End their I System  Mac Tulo A I fin of th Condin ith Ril E doubel I System th Taking of If morphatic O in C fits  Lymph Glands a d Lymphatic Vess Is  PRI EAM B O Mente c Lymph git as a n'Abdom I Fice if I fit in Sit it I rento cal Adha d' d' C n' g Link betwe ni ha Call d'S ndary D e Cosni E T Lymph E ud te d' l'ho Thi	382 338 382	B I feral Py I suphy LEDOV F T The Ro ig Treatm at of Metas LESOV T T TA Ro ig Treatm at of Metas LESOV T T TA Ro ig I m Care ma I the Breach LESOV R Blood Ch gest the Le kemas of the Lymphomata and Th Ben go a Ro i gent h py DEOCLES L Tlest coro ig ography RATH ' Th D this in f L ergy in Deep F ig a The apy M SOLIGE G The S gle Lamtof Tolera c NOTEROM GOT L The Bs f Lat I jury from h To atgen Rays s Sh wa by Lep rim ats n 1 mills NAUJ s II Th Des I pm t f Childre B After Temporary Ro atgen Ray S trilty of the Moth	372 38 387 387 387 387
Reticulo End their I System  Mag villo A. I Ru of th. Condin I th.  Rt I E double I Syt m th. Taking of  If moplast CO is G tis  Lymph Glands a d Lymphatic Vess is  PR 12M B O Me nic c Lymph gu as n  Addomi I F c s I I fet n S bu t II  I fentio est Adds d Co to g Link  bettween th S Call d S ndary D c  C oswi E T Lymph E ud te d Tho  This  SURGICAL TECHNIQUE  Operative Surgery and Techniq e Postoperi  Treatment	382 338 382	B I feral Py I suphy LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm at of Metas LEDDY F T The Ro ig Treatm LEDDY F T The Ro ig Treatm LEDDY F T The Ro ig Treatm LEDDY F T The LEDDY F T THE LEDDY F T THE LEDDY LEDDY F T LEST COPE T THE LEDDY F T THE LEDDY M SCHER G The Syle Lamt-of Tolera e DOSAGE NUTRING RGS I THE B S [Lat I jury from th Fo atgen Rays s Sh wa by Exp run ats a 1 mal Nauj s II Th Det 1 pm t I Childre B Atte Temporary Ro nigen Ray St nity of th Moth Rad m	372 38 387 387 387 387
Reticulo End their I System  Mac Tulo A I fin of th Cond in ith R i I E doubel I System th Taking of If impobate O in C fits  Lymph Glands a d Lymphatic Vess Is  PRI EMB O Men the c Lymph g to as a Abdom I Fees if I fee to be to g Link between the S call d S addry D c C o Sin E T Lymph E ud the d I'b o  Thi  SURGICAL TECHNIQUE  Operative Surgery and Techniq e Postopern Treatment De Determinonal S The Val I C to	382 338 382	Bi feral Py Lymphy LEDDY F T The Ro ig Treatm nt of Metas LEDDY T T The Ro ig Treatm nt of Metas LEDDY T T The Ro ig Treatm nt filt Breast Lastes R Blood Ch gest the Le kemmas d the Lymphomata nd Th Be n gon Ro i gen Th py DEOCLES L Thet coro ig ography RATH V The D this in f E ergy in Deep P ig n The apy M SCHER G The S gle L mutof Tolera e DOSAGE NUTERIN ROE L The B s {Lat I jury from the Fo nigen Rays s Sh wa by Exp inm nts n V mal NAUJ s II Th Det I pm t I Childre B Afte Temporary Ro nigen Ray St nilty of th Moth  RAM m  RAHN I W d PALMER B M Fo t peratic P but T Teatm t With ta d With	372 38 387 387 387 387 388 388
Reticulo End their I System  Mag villo A. I Ru of th. Condin I th.  Rt I E double I Syt m th. Taking of  If moplast CO is G tis  Lymph Glands a d Lymphatic Vess is  PR 12M B O Me nic c Lymph gu as n  Addomi I F c s I I fet n S bu t II  I fentio est Adds d Co to g Link  bettween th S Call d S ndary D c  C oswi E T Lymph E ud te d Tho  This  SURGICAL TECHNIQUE  Operative Surgery and Techniq e Postoperi  Treatment	382 338 382	B I feral Py I suphy LEDOV F T TA RO IN Treatm at of Metas LEDOV T T TA RO IN TREATM AT OF THE PARTY BEAUCH	372 38 387 387 387 387

BIRKETT G E Radium Treatment of Buccal		MISCELLANEOUS				
Carcinoma		317 Chrical Entities—General Physiological Conditient				
QUICK D Radium and Surgery in Cancer of the Tongue		RUTHERFORD R True Hermaphroditism	390			
*	318	LINK K H Traumatic Edema and Forensic				
GORDON WATSON SIR C The Treatment of Cancer of the Rectum with Radium		Medicine BEJARANO Superficial Epitheliomata	390			
CAPPELLI L Radioproteinæmia and Radio		FREIND E and KAMINER G. The Finden of	390			
Anaphylaxis in Patients with Cancer Treated		Specific Intestinal Flora with Malignant Tumors Preliminary Report				
by Irradiation	389	Tumors Preliminary Report	390			
		ID A DYYY				
BIBL	IOC	RAPHY				
Surgery of the Head and Neck		Genito Urinary Surgery				
Head	392	Adrenal Kidney and Ureter	407			
Eye	392	Bladder Urethra and Pens Genital O gans	408			
Ear Vose and Sinuses	393 393	Miscellaneous	408			
Mouth	394	The state of the s	400			
Pharynt	394	Commenced the Bassa Tourte Museles Maril				
Neck	394	Surgery of the Bones Joints Muscles Tendor	15			
_		Cond tions of the Bones Joints Muscles Tendons Ltc				
Surgery of the Nervous System		Surgery of the Bones Joints Muscles Tendons	409			
Brain and Its Coverings Cranial Nerves	395	Etc	410			
Spinal Cord and Its Coverings	396 396	Fractures and Dislocations	411			
Peripheral Nerves Sympathetic Nerves	396	Orthopedics in General	4 I			
Miscellaneous	396	Conserved the Direct on Library, Control				
		Surgery of the Blood and Lymph Systems				
Surgery of the Chest		Blood Vessels Blood Transfusion	411			
Chest Wall and Breast	397	Reticulo-Endothehal System	412			
Trachea Lungs and Pleura	397 398	Lymph Glands and Lymphatic Vessels	412			
Heart and Pericardium Esophagus and Media tinum	398					
Miscellaneous	399	Surgical Technique				
		Operative Surgery and Techn que Postoperative				
Surgery of the Ahdomen		Treatment	412			
Abdominal Wall and Per toneum	399	Antiseptic Su gery Treatment of Wounds and In fections	413			
Gastro Intestinal Tract	399 402	Anæsthesia	413			
Liver Gall Bladder Paucreas and Spleen Miscellaneous	402	Surg cal Instruments and Apparatus	414			
Gynecology		Physicochemical Methods in Surgery				
· -	403	Roentgenology	414			
Uterus Adnexal and Periuterine Conditions	4 3	Radium	414			
External Genitalia	404	Miscellaneous	414			
Miscellaneous	404					
<b>21</b> 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Miscellaneous				
Ohstetrics		Clinical Entities—General Physical Conditions General Bacte ial Protozoan and Parasitic Infec	415			
Pregnancy and Its Complications	405 406	General Bacte 121 Protozoan and Parasitic Infec				
Labor and Its Complications Puerperium and Its Complication	400	Ductless Glands	415 416			
Newborn	406	Hospitals Med cal Education and Hi tory	410			
Miscellaneous	406	Med cal Jurisprudence	416			

### AUTHORS OF ARTICLES ABSTRACTED

Aaron A H 364
Al you me T 3 4
A mo J 342
Fasting G F C 345
A mo J 343
Fasting G F C 345
A mo J 343
Fasting G F C 345
Fasting G C 345
Fasting G F C 345
Fasting G C M R 375
Fasting G F C 345
Fasting G F C 345
Fasting G C C 345
Fasting G F C 345
Fasting G C C 345
Fasting G C C 345
Fasting G F C 345
Fasting G C C 345
Fasting G F C 345
Fasting G F C 345
Fasting G C C 345
Fasting G F C 345
Fasting G C C 345
Fasting G F C 345
Fasting G C C 345
Fasting G F C 345
Fasting G C C 345
Fasting G F C 345
Fasting G C 345
Fasting G F C 345
Fasting G F C 345
Fasting G F C 345
Fasti Aaron A H 364 Al joua me T 3 4

I'd gt G H 349 I'l aso I L 376 Fasting G I C 345 Fay T 3 3 I'eldma M 353 I'm nkel L 354

Lil thal H 334

R s ow F C 345

# INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1931

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

## HEAD

Rankin F W and Palmer B M Postoperative Parotiditis Treatment Without and With Radium Ann Surg 1930 xcii 1907

Having noted the beneficial effects of radium packs in the early stages of infection of the parotid gland Rankin and Palmerreviewed all of the seventy eight cases of parotid infection which bave occurred in the Mayo Clinic in the last four years in order to compare the effects of the various therapeutic agents employed Radium was used in twenty of the cases

The incidence of parotiditis after general surgical procedures including operations on the upper part of the gastro intestinal tract and small bowel is relatively low In twenty of the seventy eight cases reviewed the condition followed an operation on the

Colon or rectum

There are five theories as to the nature of post operative parotiditis According to one the con dition is a pyæmic phenomenon due to embolism of the parotid vessels with a septic clot derived from the primary focus of infection According to another it is a parenchymatous degeneration of the gland due to hyperpyrena According to a third it is an infection of the gland resulting from an unsuccessful attempt to excrete toxin formed by the organisms of the primary disease The fourth theory is that the condition develops sympathetically after opera tions on the generative organs. According to the fifth it is produced by direct extension of micro organisms along Stenson's duct from the mouth

In the cases reviewed especially those in which operation was performed on the colon there were many factors unfavorable to surgical intervention and favorable to complications These were ad vanced age debility dehydration arteriosclerosis

and infection of long standing

The only sign which is pathognomonic of sup puration of the parotid gland is fluctuation When this appears the gland should be lanced necessary drainage of the gland and perhaps spread

of the infection is frequently avoided by waiting for a definite sign In many cases suppuration may be prevented by the application of hot fomentations or ice

By using radium particularly by applying it within one or two hours after the beginning of the swelling in the region of the parotid gland Rankin and Palmer have been able to decrease the morbidity and mortality of parotiditis appreciably by re ducing the incidence of suppuration and absorption For the best results the radium must be applied as soon as the first symptom appears The technique of treatment varies somewhat with the severity of the condition but a large dose is not necessarily more effective than a dose of medium size

Of the twenty cases treated with radium which are reviewed by the nuthors urgical drainage was necessary in only two In the fifty eight cases in which radium was not used there were twenty three deaths whereas in the twenty cases treated with radium there were only four deaths and two of these were due to pyelonephritis and uramia respectively

Spratt C N Intra Ocular Foreign Bodies J Ophth 1930 XIII 1079

The author reviews 101 cases of intra ocular foreign body seen hy him in a period of twenty five years In diagnosis the magnet test has been found unreliable. Sweet's method of localization is the best but if the first roentgenogram is negative roentgenograms should he taken from various angles as the foreign body may be masked by heavy bone Foreign bodies in the vitreous are usually removed best by the posterior route through a scleral in SAMUEL A DURR M D

Smith H G Barkan H and Barkan O Viso motor Glaucoma 1n J Ophih 1030 XIII 1076

It has been demonstrated experimentally that in tra ocular pressure varies directly with blood pres sure Kronfeld concluded from his e periments that the amount of inflow of aqueous depends upon capd lary blood pressure and the permeability of the fining membrane both of v hich are intimately related to the caliber of the intra ocular vessels. If this theory is correct it is obvious that vasomotor disturbances may precipitate acute attacks of glaucoma and in certain persons a chrome fluctuating forro may be expected.

The authors report the case of a man thurty as years old who first sought treatment in 1921 for poor vision and attacks of headache. Examination re vealed a central corneal opacity in each yee probibly from old interstitial keratiti. Vision, ith a my opic correction was 3/100 and 1/100. The fields view on mal and the disk showed no excavation but ten sion was 42 in each eye. The patient complained of mability to read for over half an hour and of blurring, of vision associated with headache and rainbow ings hich occurred after meals during excitement and

then he put his head back in a barber's chair. While re ting his bead on his right hand, be noticed a flushing of the right side of his face.

Treatment first with adrenalin and later. It his wo-

glaucosan caused great impro ement. These drugs are asomotor stimulants. Since I Derr M.D.

Holth S I denci t is Cum Iridotomia Meridi on ii An Operathe M thod B th in Acute and in Chronic Prim 13 Glaucoma 1 h Ophth on 8 n

The author states that he ahandoned the three methods of anterior sclerotomy -the flis nunch for ceps operation the Ell of trephinatio and the tan gential punch forceps sclerotomy-because all of them cause an immediate and sometimes sudden de crease of tension and after several years the defect in the sclera may be completely obliterated by solid and impermeable sca tissue the tens on being then often aised again. After his iridenclessis conditions are reversed. In 50 per ce t of the cases the tension becomes at o ce ind permanently normal but in ac per cent miotics must be used for from two weeks to s x months after the operation The final filtering sca will nearly alw ys last a lifetime In 15 per cent of the cases the continued use of miotics which are useless before operation will keep the te s on normal and render re operation unnecessary The author has ne er known of late infection to de elon in seeing eyes after iridencless a Enroth has shown that c taract may occur relatively early after Ell of s operation Holth has observed this result folloring hi operation only in far ad anced cases of cataract After cyclod alysi the possib hty of cataract should always be kept in mind

Holth de cribes his operation in deta l

Duke Eld r W S T1 Nature of the Vit us Body B t J Ochth of S pp

The author presents endence which suggests that the vitreous body is a hydrophilic elastic gel formed

by the physical combination of two special protein constituents each igth a specific function which are elaborated by the surrounding ectoderm and the common intra ocular fluid which di lyzes from the capillary blood and pe colates these protein con stituents The reactions of the gel to changes in its environment and internal economy proceed along physicochemical lines according to the conditions which govern the behavior of gels in general As the gel is a cell product its reaction to metabolic or touc disturbances is passive ft vill respond to alterations in its environment or internal economy by turgescence and deturgescence Turgesce ce causes ocular hypertension and deturgesce ce causes hypotension Macroscopically the vitreous body has the appearance of a gel but micro scop cally if it is e amined in as normal a state as possible at appears structureless

Alm st in anably the surface layer of a colloid solution underg es condensation hence the socalled hyato I membrane Anatomically a membrane does not separate the vitreous and ret a

The zonule v as once considered to be a membra nous structure closely related to the vit eous Later it was described as a system of fibers. Today the first view is held to be most correct

The vitreous gel is in a very unstable state of dynamic equil b ium and is read by destroyed by the

slightest mechanical insult

The vapor pressure of the vitreous shows it to be
a reversible elastic hydrophilic gel presenting no
onacity point

Slo an I controlled diffusion in the vitreous ac counts for the formation of large and well formed crystals of substances crystallizing with difficulty such as fatty acids v hich may produce synch is scintillans.

In the horse the chemical composition of the vitreous body aqueous humor and blood serum is as folio s

THE CHEMICAL COMPOSITION OF THE VITREOUS BODY
AQUEOUS HUMOR AND BLOOD SERVE OF THE
HORSE

	(Gr ms	p	00 C C	m)			
		١,	60	Ag			rum
W t		99	6813	99 1	69	93	3 35 536
Solds (d d	t 100 C)	•	087		o\$69	9	530
Ttlpot			652		2	7	3001
Alb min			0077		0078		9557
Glob 1			15		0 3	4	4 35
M p t			1				
R d Ipot			50			_	
Fb og n		T			c	Ł	- 3
Imm bd	s	T		T	c		es 1
F ment		T	CS	T:		P	
Γt		0	007		204	_	13
Chol t rol			0005	т	ce (?)	Ρ.	e I
No p t	t oge		264		236		o 39
T t Init og			3	0	68		_
U			9		28		07
Am o⊢ d			03	o	9	-	35
I et c a d			ŏ		5	ī'r	s t

Creatinine	0 001	0 002	0 002
Sugar	0 0073	o og83	0 0010
Sodium	0 273T	0 2787	0 3351
Potassium	0 0192	0 0189	0 0201
Calcium	a aoó8	0 0062	0 0101
Magnesium	0 0020	o oo26	0 0028
Chlorine	o 4r68	0 4371	0 3664
Phosphorus (morganic)	0 0031	ø 0033	0 0030
Sulphur (inorganic)	0.0002	ο οούτ	8.00 0

Hematogenous constituents of the vitreous are Colloids

A Proteins (1) albumin (2) globulin These are dialyzed from the blood stream

Immune bodies (1) antibodies (2) agglu tinins (3) bacteriolysins (4) hæmolysins and (5) complement fixation substances The distribution of these constituents is affected only by their molecular size They enter and leave the eye in very minute quantities When their concen tration is raised in the blood in highly immunized animals the vitreous may con tain considerably more Their concentra tion may be increased by an increase in capillary permeability

Because of the non-diffusibility these are present in very small quantities

II Diffusible constituents

Non ionized substances

Ionized salts

Cations (a) sodium (b) potassium (c) calcium and (d) magnesium Anions (a) chlorides (b) phosphates

and (c) sulphates

In all cases the vitreous and aqueous are strictly comparable in composition They are formed by simple dialyzation from the capillary plasma

Special non hæmatogenous constituents of the

vitreous are

This occurs in the umbilical I Mucoprotein cord cornea and vitreous and is transparent A Chondroitin sulphuric acid This occurs in the sclerotic as in other connective tissue

and its function is primarily skeletal B Mucortin sulphuric acid This occurs in the cornea and vitreous body and maintains

transparency

II Residual protein containing carbon hydrogen nitrogen ash potassium and sulphur The aqueous is poorer in colloids than the vitreous

hence it is slightly more acid than the vitreous Both the aqueous and the vitreous are more acid

than the colloid rich blood plasma

Because of the gel structure of its colloid con stituents the vitreous has a very high viscosity The conductivity of the aqueous filtrate is slightly greater than that of the vitreous filtrate because of the difference in the protein concentration vitreous is in osmotic equilibrium with the aqueous when the two are separated by a semipermeable membrane Its osmotic pressure corresponds also to that of the capillary blood dialysate

The composition of the vitreous alters in the same way as that of the aqueous but the changes are slight As colloids diffuse in the gel with difficulty the vitreous does not readily show a high protein concentration when the aqueous is withdrawn

The changes in the vitreous take longer to attain a maximum and much longer to resolve again to normal because diffusion in a gel is slower and shows

more mertia than diffusion in a sol

The vitreous was first believed to be derived from the mesoderm Later it was thought to come from the ectoderm and to be secreted by the retina Still later its source was thought to be the lens which is also ectodermal According to a fourth theory it is of mixed origin Today it is believed to be essen tially of ectodermal origin—to be formed originally from the neural and surface epitbelium and later from the retinal glial elements

The author concludes that the intra ocular fluid dialyzes from all of the vascularized tissues of the

eye but especially from the ciliary body

Experimental and clinical evidence indicates that the vitreous depends for its nutrition largely upon the choroid The fluid spreads through the vitreous by diffusion and escapes by dialyzation. The aque ous fluid escapes by Schlemm's canal and the vitreous fluid by the optic nerve bead

The vitreous contains four proteins-serum al bumin serum globulin mucoprotein and residual protein The iso electrical points of the first three are albumin pH 47 globulin pH 562 and mucoprotein pH 25 The iso electrical point of the residual protein is unknown

Changes in turgescence are

I An acid zone (pH I to 4) At pH 35 the vitreous weight increases 42 55 times

The iso electrical zone (pH 4 to 6) The neutral zone (pH 6 to 8)

4 A zone of instability (pH 8 to g) A highly alkaline zone (pH o to o 5)

Evidence shows that in certain cases glaucoma is due to turgescence The swelling is probably due to

faulty metabolism of the vitreous

Breakdown of the vitreous is caused by disturb ances of filtration removal of the normal environ ment and the influence of acid and alkaline solu These factors cause shrinkage of the gel which then becomes penetrated by an ever thicken ing feltwork of strands fihers and membranes These factors therefore explain the occurrence of vitreous opacities in the presence of

r Evogenous materials derived from cyclitis

choroiditis and retinitis

2 Autogenous material from partial or complete breakdown of the gel Hyalitis is impossible as the vitreous is a cell product and not a cellular tissue

3 Retinal detachment caused by non support of the vitreous mass after it has liqueted or shrunken Behind the detached retina a highly albuminous plasmoid fluid transudes from generalized dilatation of the ocular capillaries following hypotony accounts for a part of the detachment associated with neoplasms. In albuminume retimus it is probably associated with metabolic derangement in the vitrous certurally a this general enous obstruction in the choroid and retina and sometimes with general orderia. Detarhments in thrombosis of the orbital veins probably have a similar origin.

LESLIE L VICCOY VI D

Witmer W It Ct nic Retrobutbur Neur tis

In the diagnos s of a jal neurities a detailed family history is helpful. A complete examination should be made including in doubtful cases examination of the spinal fluid A positive gold curve with a negati e Wassermann reaction is highly suggestive of disseminated sclerosis Trequent perimetric measurements are essential. While in some cases of disseminated sclerosis a inl neuritis does not appear until late in others it is the con lition that brings the patient to the physician Therefore in cases of a tal neuritis attributed to simus disease or some other focus of infection disseminated sclerosis may de elop later Persons with dis seminated scleros s or Leber's disease are young and nervous and may ha e mental defects family hat ry sex and the constant absolute central scotoma in Leber's disease are helpful in the differential diagnosis. The possibility of disease of the pituitary body must be borne in mind When there are many possible sources of axial neuritis it is often impossible to determine which one is respo sible

The management of cases of axial neutritis consists in the remo al of any manifest focus of infec tion and t eatment of any cause of tovern a that may be disco ered such as syphilis tuberculosis or d abetes. In chronic cases in which no source of infection can be found it is leg timate to explore the spheno dal and posterior ethmoidal cells. In Leber s d sease and disseminated sclerosis frankly infected sinuses should be drained an i other foci of infection removed For disseminated scleros s there is little of specific therapeutic value to be suggested in the present state of our knowledge but a general hygienic r g men is important. In Lehe s d sease the pat ent is b st helped by being told frankly of his cond tion and aided to face life with the prospect of impaired vis n Healthful employment is des r able The patiert should be told that he vill not be bli d and that at the age f ffty ye rs he ill probably be better able to adjust himself to the central bli dnes L S E L McCoy M D

#### NOSE AND SINUSES

Aubin A nd M duto R The Pseudotubercu
lous Forms i Tritary Syphilis of the N e and
Phatvax (Le f m s ps dot b ut u c d i
syphi t ta e d z ct d phary) t i
i i n i d i y g i 930 v x 8 5

Of all the manifestations of tertiary or delayed congenital syphilis the most common are les ons of the nose and pharyny. In observing numerous case, the authors have been impressed by the con derable percentage of nassl lesions which present an aspect quate different from the standard descriptio s. Usually the les ons in the nose are not diffuse infil trations or gummata but resemble very closely lupus of the mucous membranes. In the pharyny on the contrary the gummatous form of lesion is the most common. However even this often re-sembles tuberculous granuloma of the mil ary type (Isambert's disease).

The classical fuetic lesions of the nose are charac tenzel by swelling obstruction and pain. At first they are dry but with breaking down of the granu loma a foul discharge appears. This is coincident with the formation of sequestra. The initial stage of the disease is seldom seen. Once developed the gumma or d fluse infiltration located on the septum resembles a hæmatoma. It never involves the car tilage Lesions on the inferior turbinate suggest a simple hypertrophy According to the classical descriptions the broken down lesion resembles a punched out ulcer lut in reality this aspect is almost never seen The common lesion is the lupo d form resembling tuberculosis in appearance but being less torm I in its course. The lesion presents granulations and an irregular mulberry like surface and bleeds easily. The base of the ulcer is indurated and often sho vs the underlying bone (Lubet Barbon)

The lupe d form of tetuary syphils little suggests the disease. There is no pain no swelling of the nose and little obstruction. The patient surfers simply from slight but constant difficulty in breath sing an or linary mucopurulent dicharge and some times this crusts the removal of vie the causes slight bleed in Lamination reveals one or more utcers with all defined and arregular borders and a base co ered with granulations the size of a pin head. Often the carridagnous septium is involved but there is no exposure of cartilage or bone. This is the description of liquis but a difference is seen in the infiltration of the surrounding mucosa which is definitely view.

In the phary at an which gummatous and ulcerative types of syphil tic les ons are most common the early stage of a filtration is seldom obser of Usually the putient presents a mself with an ulcer of the classical type which shows a vellowish base and punched out scalloped bor lers and is surrounded by intensely, hyperamic mucosa Pain s ab ent As a rule there 1 only a single lesson but it is large and in healing, it les es white contractice catr ce.

In the pharyne the pseudolupus form 1 rare but may very closely simulate lupus. The pseudotuber culous for n of pharyngeal sypl its uppears u der the gue of Isamberts disease (military tuberculos of the mucosa). Multiple ulies develop in succes sive crops as the result of the soften ng of military culos distributed by the property of the military command. The latter pres in them el e.g. as munitary yellon bod es the si e of singo grains is high are rounded by a bright red cane of infiltration. The

ulcers become confluent and cause extensive losses of substance New miliary gummata constantly appear in the vicinity. It is on the posterior wall of the pharynx the soft palate and the nasal mucosa that syphilis reproduces most exactly the tuber culous granuloma of Isambert. While the presence of fever and the absence of surrounding zones of infiltration are supposed to distinguish tuberculosis from syphilis the differences are often more theo retical than real

Because the clinical symptoms of these special forms of syphilis are insufficient to differentiate them from tuberculosis the authors discuss the various elements in the diagnosis in detail

Diagnosis by means of biopsy is very delicate Intima of the vessels is thickened and there is a perivascular infiliration. Although giant cells and epitheloid cells are frequently present the regular arrangement of a tubercle is absent. Vessels often persist in the areas of necrosis. Sclerosis in the healing portions of the lesion is intense and appears early. Even when all of these findings are present the diagnosis can never be more than presumptive.

Of great value is an intradermal injection of tuberculin. In tuberculosis this causes a local reaction

The II

The Wassermann is often po itive but when it is

negative should be ignored

Of most value is the therapeutic test provided it is applied vigorously Only mercury bismuth or arsphenamine should be employed. The frequent practice of administering large doses of iodide is wrong because this drug simply causes infiltrations to disappear without being specific for syphilis.

The author concludes that the classical form of terrary nasal syphilis is rare that the Lubet Barbon lupoid form is the most common and that certain lupoid forms have not only the aspect but also the location slow evolution and absence of bone destruction which are characteristic of lupus

Several illustrative case histories are presented
Albert F De Groat M D

Wellle F L Asthma M The Pathology of Allergic Tissue as Seen in the Nose and in the Accessory Sinuses treli Ol lary g l 1930 vn 78s

One hundred and sixty specimens of tissue re moved from the nose and accessory sinuses of 26 patients with asthma or vasomotor rhinitis or both were examined macroscopically, and microscopically. The most interesting macroscopic observation was the presence of occasional pus pockets in membranes from the sinuses. Microscopic examination disclosed metaplasia of the epithelium thickening of the hase ment membrane cidema or fibro is of the tunical proprin active mucous glands dilated serous glands and prominence of cosinophiles. The findings showed that a thickened mucous lining of a sinus may contain a pus pocket constituting a source of focal infection.

George R McAutir M D

Byrd H and Byrd W Sphenopalatine Phenom ena The Present Status of Our Knowledge trek Int Med 1930 vlv1 1926

Dysfunction which can be arrested by anæstheti zation and injection of the sphenopalatine ganglia occurs in numerous sensory motor secretory respiratory and circulatory diseases

The anaesthetization is accomplished by the topical application of 2 minims of 50 per cent butyn to the lateril wall of the masopharynx posterior to the tip of the middle turbinate. A dysfunction is considered relieved if the relief is complete within five minutes after the application of the butyn and continues for four hours or more. If relief is no longer obtained after from six to a dozen topical anæsthetizations injection of the ganglion with alcohol is indicated While anæsthetization does not give relief in all cases of a malady it may be confidently expected to do so in at least one fifth of the cases.

GEORGE R MCAULIFF M D

#### MOUTH

Birkett G E Radium Treatment of Buccal Carcinoma Br t M J 930 1 947

The treatment of carcinoma of the mouth and tongue with radium is based chiefly on the principles of screening laid down by Dominici Regaud Failla and others namely the use of small intensities for a long period of time with elimination of the direct action of the beta rays rather than the use of high intensities for a short time. Since 19.5 the author has used a screen of 0.5 mm of platinum

Radium irradiation has not only greatly improved the prognosis of buccal carcinoma but also has greatly increased our knowledge of the disease. It has been proved conclusively that in buccal carci noma metastasis occurs by embolism Epitheliomata of the cheek lip floor of the mouth and anterior third of the tongue are highly differentiated for the most part and therefore radiosensitive Carcinoma of the base of the tongue is embryonic and the most radiosensitive of all buccal carcinomata. The difficulty of obtaining results in lesions developing upon a chronic glossitis of syphilitic origin indicates that often these lesions require additional surgical treatment However because of the radiosensitivity of most mouth lesions the treatment of such lesions seems to be mainly a problem of the insertion of

Needles with an active length of from 30 to 50 mm are preferred to five or six separate seeds If hone is involved irradiation alone will rarely suffice Over treatment is thought to be better than under treatment. In mouth lesions radium irradiation is a conservative method which if successful will restore function almost to normal.

In the treatment of the lymphatic drainage areas of the neck the use of radium alone has not estab lished itself as the method of choice. The needles should be inserted only after thorough exposure. Their msertion through the skin is not practical. In operable cases block dissect on is often the procedure of choic In moperable lessons the best procedure thorough exposu e followed by the insertion of radium needles throughout the area of secondary deposits The needles should have an active length of from o to 50 mm and should be placed o 2 cm apart They should be left in pos t on for eight days From thirty to forty needles are usually required. For their removal the wound should be re opened under general anesthes a If no glands are p loable in the neck external irradia gm of radium should be g ven and the tion v th patient kept under observat on

In the cases reviewed by the author the incidence of apparent cu e of the primary site as 38 7 per cent in 1926 47 3 per cent in 1927 and 60 per cent in 1028 The incidence of apparent cure of both primary and secondary sites was 27 5 per cent in 1926 36 per cent in 19 7 and 45 per cent in 1928 It is e ident therefore that the immeliate results The improvement is ascribed by are improving the uthor to increased personal efficiency While the incidence of cure has been about equal in the cases t eated with rad um and those treated with su gery it must be remembe ed that the cases treated v th radium include inoperable as well as operable cases a d that the mutilation and im par ment of function are markedly less after radium irradation than afte operation. The author be heves that we c n look forward to impro ement of results 1 buccal carcinoma from treatment by irradiat on with the gamma rays

A JAMES LA IN MD

Ba baro Cleft Palate (D on pit ) B ll t mem S t d h 93 l 1 86

Ba baro reports a case of cleft palate v h ch was treated succe sfully by muscular suture combined th suture of the nasal mucosa. In presenting Ba baro's repo t to the Society \ EAU takes occa s on to r ply t criticisms of his techn que He states that Lexe who uses the L ngenbeck method er tici es h muscular s ture of the soft p late but app oves f sepa ation of the aponeuros the Veau has I ng abando ed With rega d to Veau's treatment f the hard palate Le er d appro es of the s p rat n of the superior surfaces of the palatal laye the uniting of the flaps and the complexity of the sutures of the buccal mucosa However Veau says that according to statistics Langen beck oper tion s follo ed by disumon in from 30 to 60 per cent of cases

Veau admits that inh procedure the fibers ithin the loop of it e metallic suture are comp essed but he emphas es that all the rest of the muscle is in tact and able to function. He states that the in mobility of it e soft polate after Langenbeck soper ation is due to selevois of the muscles the re ult of excatrization. As ind cating that muscular suture i less dange ous to the mob I by of the soft palate be cites the fact that in 40 per cent of hi total number of cases and 90 per cent of those of child en pe ated upon before the third year of age absolutely normal phonat on is obtained

Lean has not rejected pharyngeal separation of the tissues and disinsertion of the polatal aponeurous. He separates the pal tall lamine but only temporarily. He believes it is better to have the nasal surface feed for a few second and the b cal surface freed for a few mi utes than to have the buccal surface denuded permanently in an ineutably infected medium. Lever does not accept the massl suttree.

After 200 operation Veau greatly reduced the s e of the rug ne he uses This is his only special instrument. He has often split the mucosa but has been able to suture it Lexer says that when a dou ble layer of sutures is used recesses are formed where inflammation and suppuration may de elop more easily than when a bloody surface is left and the secretions are eliminated Veau performed 350 st phylorrhaphies before he succeeded in suppres ing these recesses in cleft palate with ut harelin. He frees 1 or 2 buccal flaps taking all of the p latal mucosa These flaps completely detached in fr nt are fitted to the roof of the reg on and closely at tacl ed to the layer of nasal mucosa \s the buccal edges come together so well he no longer makes a med an buccal suture but fastens the buccal flaps to the roof 1th 2 or 3 lateral stitche

Veau attributes the vitality of the t sues at the edge of the buccal suture to the conservation of the great posterior palatine artery Pice

Quick D Radium and Surgery in Cancer f the

Cancer of the tongue i usually epiderm id in character and includes practically every h tol git I type from the papillary squamous cell growth to the infiltrated tumor and from the fully diffe ent ated adult type to the total anaplastic transitional cell

tyr e In the treatment of epidermoid carci oma the combined use of irra lintion a d surgery offers sev eral advantages The deg ee of cell lar d fferentia tion revealed by the micro cope sho s clearly the reason for some of the falures of surgery a d for some of the spectacular results obtained with 1 rad tion Pat ents w th highly malig ant lesions are poor surg cal t Ls On the other hand such lessons are bigbly rid osen to e Fully differentiated tumors often yield better operati e results and are ordinarily more radioresista t The work of Martin and Quimby bas shown that adult ep dermoid carcinoma requires from 7 to 10 skin ery thema doses throughout the tu mor for pe manent control of the neopla m Th anaplastic g owth quite often respond to fro 13 to 6 erythema dose Hence e ternal irrad atton oc cas nally controls a few of the most rad osensiti e gro the of the tongue O d narily ho e er inter stit il irradiation must be employed Hi tolog cal grad ng is of great importance n the determ nation of the in tal do age and as it i most easily carried out in er derm d cancer the treatment of the type of lesion is becoming more accurate. Any aggressive treatment of cancer of the tongue should be preceded

by rigid hygienic measures

Since 1925 radon in gold capillary seeds with a fil tration of o 3 mm have been depended upon entirely for the direct complete control or restraint of the tu mor tissue. For the past three years external irradiation has been augmented by the use of a 4 gm radium element pack. Surgical measures are used only for operable metastatic cervical nodes of fully differentiated carcinoma During the first two weeks all cases receive external irradiation to a maximum This is followed immediately by treat ment with gold seeds of radon with an individual value of about 2 o mc Necrosis rarely occurs except in uncontrolled local infection. Bulky growths are often cauterized a few days after the implantation of radon The loss of irradiation sustained thereby is compensated for by the use of a greater initial strength of radon Such cautery removal promotes surgical cleanliness relieves pain eliminates tissues which would otherwise break down promotes beal ing and reduces deformity Secondarily infected bone calls for surgical removal New growths at the base of the tongue are quite often carcinomata of the transitional cell type and exhibit a bigh degree of radiosensitivity

The treatment of cervical nodes is of greater im portance than that of the primary growth Routine block dissection of the neck is not practiced. High voltage \( \) ray irradiation is used routinely for eco nomic reasons though beavily filtered radium is preferable The determining factor is the equivalent quantity of irradiation A good dose of the \ rays is better than a poor dose of radium For irradiation of the neck the use of both roentgen rays and radium is better than a comparable quantity of either agent alone Ewing believes that the effect of roentgen irradiation is more pronounced on connective tissue while that of radium is more pronounced on cellular structures If a palpable node of adult epidermoid carcinoma is present in the neck complete unilateral neck dissection with the removal of all lymph node areas and the embedding of filtered radon seeds at suspicious points within the wound before closure is best Inoperable metastatic lymph nodes are treated by surgical exposure and the implantation of seeds in the tumor bearing area Nodes in which the cap sule has been perforated by the disease are considered inoperable as are hilateral metastatic nodes in the Metastatic nodes of anaplastic epidermoid carcinoma in the neck are treated with radium alone The basis of the treatment is external irradiation combined with the embedding of filtered radon tubes

Of an unselected group of bistologically verified cases of cancer of the tongue treated in the period from June 1 1917 to December 31 19 7 freedom from evidences of the disease was found at the end of 1929 in 40 per cent of those of involvement of the tup of the tongue 1 per cent of those of involvement of the lateral border of the tongue and 17 per cent

of those of involvement of the base of the tongue. Of the total number of patients, 20 per cent were still alive and 18 per cent were free from evidences of the disease.

In conclusion the author says that at the Memorial Hospital London radium is the agent of choice for the treatment of the primary growth of cancer of the tongue but that the roentgen rays should be used unless very large amounts of radium or radon are available for external application. In the mouth surgery is employed in addition for access drainage and treatment of diseased bone and in the neck for the treatment of adult epidermoid carcinoma. In the neck surgical exposure plus the implantation of fil tered radon is indicated in a variety of conditions considered inoperable. The methods selected de pend upon the radiosensitivity of the growth as in dicated by its histological structure. The interests of the patient are served hest by close co operation be tween the pathologist physician physicist and clinician A JAMES LARKIN M D

Soerensen J The Surgical Treatment of Car cinoma of the Tongue (Die chiru gi che Behand hune der Zungencar inome) Zi chr f Lary igol Rhinol 1930 un 449

The author states that while carcinoma of the tongue does not belong to larvingology larvingologists are often called upon to make the first diagnosis not only of carcinomata in the posterior part of the tongue but also of those in the floor of the mouth

Soerensen divides carcinomata of the tongue into three groups those of the buccal portion those of the floor of the mouth and those of the phary ngeal portion. Carcinomata of the movable part of the tongue are usually located on the border of the tongue opposite the first molar or the second brouspid tooth. Early diagnosis is very seldom made even when the lesion is in this easily accessible site. In a large material the author found only three cases in which the lesion was diagnosed early. He reports such a case. He states that in early cases it is immaterial whether radium or roentigen irradiation diathermy or the kinife is used for the destruction of the carcinoma. If the glands are removed also a good result can always be obtained.

Unfortunately cases of carcinomy of the tongue usually do not reach the surgeon until after the body of the tongue has been extensively infiltrated. The author formulate the rule that in excising the tumor the surgeon should keep 2 cm distant from its edge. This necessitates transverse amputation of the tongue. The injury to function from the operation is not so great as to prevent the patient from resuming his occupation after vard. It is essential however that the stump he mobile.

Only small tumors can be removed by a simple operation in the mouth. In cases of large tumors which extend farther special operative measures are required for access to the entire region involved. The author does not recommend slitting of the check according to the Jaeger Risol method or

division of the jaw according to the method of Langenbech or hocher. By a procedure of his own he mobilizes the tongue so that it can he drawn for enough out of the mouth. He applies a noise to the tip of the tongue divides the frenulum ligates the lingual venue shirts the muous membrane of the floor of the mouth along, the undersurface of the tongue as far as the palatoglosarl arch on both sides and cuts the attachment of the platine arch to the border of the tongue is far as the palatoglosarl arch on both sides and cuts the attachment of the platine arch to the border of the tongue is then sufficiently mobile to permit its posterior trans erse division at a distance from the foramen excum. By means of this small autiliary operation practically all tumors of the body of the tongue can be extripated.

The author next discusses the groups of glands which must be remo ed These are the sul mental glands the glands lying in front of and behind the submaxillary glands and the deep cervical glands external to the common jugular ein at the level of the bifurcation of the carotid Their extirpation is undert ken first with blateral ligation of the lingual a teries. For the extirp tion of the plands a large incisi n s made from the mastoid process to the great cornua of the hooid hone and thence to the midl n and the clin Startin from its decpest point a long tudinal neision scarried do n and to the ste nal attachment f the sternocleidomasto d muscle Beginning at the I wer markin of the in cision all of the lymph glands together with the salivary gl nds are remo ed so far as possible in one mass

one mass
Socrense e typates the glands and the carcinoma in one tage. The tran erse amputati in of the tongue he perf irms in steps. Starting at the side he divides p tion and then at once unites the tongue surface to the mucosa of the mouth. He states that the operation is not dangerous he has had nod it fis from it for many years. Satisfactory speech after the operation requires pre many lenlighten the states that the operation requires pre many lenlighten to the states that the operation requires pre many lenlighten to the states that the operation requires pre many lenlighten to the states that the operation requires many lenlighten the states of t

Ca commata f the pharyngeal portion of the tongu a ed flicult to attack surg cally and aspiration pneumonia vas formerly the almost unavoid able consequence f their removal. With the object of preventing this sequela the author shis the trachea beneath the lightel; it himself the thyroid and introduc a rubber tube upward and a cannula do myrdfore piration. This drainage of the large and fords almost extain protection again t aspiration.

pneumona It cattnoma of the bas of the tongue the author makes a skin are son over the hyo d bone and divides the anterior hyo d la yngeal muscles lutther p ocedu e then lepends upon whether or not the epiglottis is to be preserved. If the epiglott is not to be preserved the hothword ligam int and the pedicte of the epi lottis are divided but if preservation of the epiglottis is possible the approach is made through the hyo ep glotte membrane. After estirpation of the tumor all divided structures are

united again with the greatest care and the wound is closed around two dr ins. Of seven cases in which the author operated in this way healing occurred in all. It is essential for the success of the operation that the hypoglossal nerves be protected from many as otherwise the stump will remain motionless. If these nerves must be sterified it is better to exist the entire tongue. The author performs the cutpa tion in the manner already described after tracheal dranage and subho of pharvingotom. By these procedures it is po a ble also to remove the larying at the same time as the tongue

Carcanomata of the floor of the mouth are very maisgnant therefore their exists on must be ette of ed far into healthy it saue. The author a soude dusion of the jav because he has never known it to be followed by hony umon. He operates by Billroth's method separating all of the muscles from the er jaw and then opening the mucous membrane of the floor of the mouth. For this operation also tracheotomy, is necessary. The tran mandibular operation is performed by Socrensen only when the tumor has involved the jai.

#### PHARYNX

Barelay A E The N rmal Mechan sm of Swallow ing B t J R d t 930 534

From \ ray studies of the normal mechanism of s vallo ving the author concludes that the bolus is carried from the back of the tongue to the classicular le el largely by negative pressure in the pharynx which everts a suction action. The combined action of raising the lary nx and backwar I mo ement of the tongue obliterates the pharyngeal space for a frac tion of a second 11 ith the mouth nose and farynx closed the re opening of the phary nx produces the negative pressure Lucept in the case of fluids gravity pl 3s a minor part in the normal act of swallor ing The epiglottis does not fall back over the mouth of the larynx as is commonly believed hut remains in the erect posit on behind the tongue The larynx is close i by the laryngopharynge I wall which is drawn up to make contact with the epi gl ttis

The sequence of events is as follows

1 The mouth and no e are closed
2 The larynx is raised and closed and its upper
part is obliterate I by the back of the tongue

3 The 1 haryan becomes momentarily obliterated by the rise of the laryan and the retraction of the tongue

- 4 A negative pressure 1 created in the pharint hy dropping of the larging thich still remains in close relation to the ep glotti and forward me ement of the tongue
  - 5 Food is tipped back over the tongue and is
- immed ately sucked into the laryngeal pharynt

  6 The laryngeal pharynx d ops opening the

  1 rynx
- 7 The food is sucked some di tance doi n the cesophagus

The whole act of swallowing from the tongue to about the level of the clavicle in the exophagus takes place during a small fraction of a second

SAMUEL PERLOW M D

#### NECK

Sattler H The Pathological Anatomy and His tology of the Thyrold Gland in Basedow s Dis ease (Patholo ische Anatomie und Histolo ie der Schilddruese bei der Basedowschen Krankheit) 1rch f p th Anat 1930 cdxx 11 178

Sattler says that in Basedow's disease a macro scopic enlargement of the thyroid gland is always demonstrable. In many cases the enlargement is not uniform Nodules and cyst formation do not occur in primary Basedow's disease but may he present in secondary Basedow's disease. In contrast to the findings in the living the consistency of the excised gland is firm. The cut section is smooth gravish yellow or grayish red and dull A thin turbid fluid may be scraped from its surface. In the interlobular septa dilated veins are frequently seen. Histologically the thyroid follicles are strikingly irregular in form and size Often they are greatly elongated and branched The follocular epithelium varies from the cuboidal to the cylindrical type and is in active proliferation The colloid is thinned or absent The vascularity which is so characteristic of the clinical picture of the Basedow goiter is little evident in the microscopic preparation but the thin walled veins in the interlobular connective tissue and in the capsule are frequently greatly dilated and filled with blood The great friability of the vessel valls is manifested by numerous extravasations in the interstitial con nective tissue Dilated lymphatics are also some times seen in the connective tissue septa

Another group of Basedow gosters present an entrels different picture from that described In these small and moderately large round or oval folicles dominate the field The epithelial lining in the small follicles is cubodal or low cylindrical and usually single layered In addition there is a tendency toward marked desquamation of the epithelial cells The cellular desquamation is not pathognomonic of Basedow's daesae's however as it occurs also as a

result of infectious and toric influences

There are also Basedow goiters in which large small and very minute follicles mixed together or united in groups are seen in every lobe

A finding in Basedow gotters which varies greatly in its frequency 1 lymphoid cell accumulations in the interstitual connective tissue. However lymphocy te accumulations or 1 lymph node are found also in ordinary gotters and sometimes in normal thyroids. The author believes they have no relationship to status thy micely imphriticu. He regards them as the result of a toxic irritation. The follicular epithelial and colloid changes in the Basedov gotter indicate ah normally increased activity of the thyroid gland Similar histological change occur in compensatory.

hypertrophy of the remnant of thyroid left after removal of a large portion of the gland

GEBELE (Z)

Mayer E and Fuerstenheim A How Closely Are Certain Forms of Thyroid Acini and Colloid Related to the Clinical Picture of Basedow's Disease? (Wie e te entsprechen den Al Inischen Bildem der Basedo schen Arankheit bestimmte Formen der Schildeme enblaeschen und des Kol loud ?) trek f path A at 1930 cclk viii 301

The authors state that variations in form (poly morphism) of the thyroid acini cylindrical epithe hum and thin colloid formerly seemed to be quite

constant findings in Basedow's disease

For several years—sunce about the time of the introduction of pre operative treatment with odine—the usual finding in Basedow's disease has been the macrofollicular colloid struma with only localized papillary outgrowths of columnar epithelium from the acnar walls (Sanderson's cushions)

The amount of cylindrical epithelium bears no regular relationship to the severity of the clinical manifestations. In very severe cases of Basedow's disease acini lined with smooth cubodial epithelium are occasionally found and in atoxic cases marked cushions may occur. Moreover in cases showing decided clinical improvement papillary outgrowths of purely columnar epithelium have been discovered. A closer relationship exists between the clinical

picture and the staining quality of the colloid A good evaluation of the quantity of colloid can be obtained by the comparative use of the Mallory and Kraus stains but the nature of the colloid

cannot he ascertained in this way

It i probable that the thyroid picture is influenced by the administration of iodine and that the colloid is affected more than the epithelium. However, the often claimed conversion by iodine treatment of colloid free thyroids with papillary outgrowths of purely columnar epithelium into macrofollicular colloid goiters with cuboidal epithelium has not been proved by statistics or by hiopsy

Progress in thyroid research requires thorough evaluation of the histological and clinical findings a study of the transitional forms by observations on the living and the working out of the simplest

details

O MEYER (Z)

Curtis G M The Blood Supply of Human Para thyroids Surg Gy ec & Obst 930 li 8 5

The blood supply of the human parathyroids particularly the collateral blood supply was studied in a series of twenty five cadavers immediately preceding autopsy. An especially devised injection apparatus was employed. A carmine gelatin mass was injected into the lower thorace aorta below the origin of the bronchial and esophageal arteries at a pressure of 150 mm. Hg. By preliminary ligation of certain arteries leading, away from the neck the injection was localized largely to the thyroid area.

Abundant anastomoses were demonstrated be tween the thyroid arternes especially the infe ior and the arternes of the laryn't pharyar trachea and ces phagus and their surrounding fascur. It is sound also that the thyroid arteries anastomose with one another and across the median line part toularly in the region of the istimus. The para thyroids receive their single artery as a rule from the infe ior arteries.

After preliminary ligation of both inferior thyroid arteries the presence of carmine gelatin which had been injected was demonstrated in the parathyroids hy means of frozen sections After ligation of both inferior thyroid arteries together with the anterior branches of both superior thyroid arteries the in jection mass vas demonstrated in the parathyroids by the same method In three bodies all four arte al trunks we e ligated preliminary to the in rections and the mi ture was subsequently dem onstrated in the vascular spaces of the parathy roids The posterior fascial connections between the thyroid and the trachea and esophagus particu larly in the region of the isthmus and the medial borders of both lobes are important in maintaining th's collateral supply

In the Surg cal Clinic in Berne ligation of both inferior thyroid arteries is frequently done as a hæmostatic measure preliminary to thyroidectomy In many in tances the anterior branches of the superior arteries are ligated at the same time. In less than r per eent of the cases all four arterial trunks are ligated. Since tetany does not follow these procedures it is apparent that the collate all blood supply to the parathyroids is ample. The demonstration of an injection muture in the para thyroid glands following the preliminary ligation of both inferior thyroid arteries and even of all four thyroid arteries substantiates this conclusion and places it on a firm experimental basis.

JACHE M MORA MD

Jacques L The Treatment of Postoperative T truy with Special Ref enc to the Adm n I trail n of Irr diat d Erg sterol 5 g Gy c & Obst 93 1 823

Jacques d cuses current methods emplored in tetany and reports his results from the use of irradiated ergosteriol in six cases of the condition. In three cases there was improvement in which the ergosterol may have been a factor but in the tomost severe cases no improvement resulted from the ergosterol treatment. The author concludes that has observations do not support the theory that the action of Vitamin D occurs through the age, yo of the parathy roud bod es. Jacon M W MD.

## SURGERY OF THE NERVOUS SYSTEM

## BRAIN AND ITS COVERINGS CRANIAL NERVES

Davis L Surgical Indications in the Treatment of Skull Fractures Internal J Med & Surg 1930 vii 1 621

The author believes that in cases of skull injury with a comminuted depressed fracture middle meningeal hæmorrhage or chronic subdural hæma toma surgical intervention is indicated definitely but in all other cases the treatment should consist of conservative measures to reduce the increased intracranial pressure. Chief among the latter is the intravenous administration of a 50 per cent solution of glucose-100 c cm to adults and from 25 to 50 c cm to children This may be repeated every twelve bours with or without insulin as indicated At the same time adults may be given from 150 to 180 c cm of a saturated solution of magnesium sulphate every four hours by very slow Murphy drip or by stomach tube if the solution is not re tained by rectum The administration of hyper tonic solutions should he continued until the patient regains and maintains consciousness

Spinal punctures should be done in cases of shall injuries in which there are large amounts of hlood in the subarachinoid space but not for the reduction of increased intracranial pressure. The presence of blood in the subarachinoid space is manifested by rigidity of the neck and extreme restlessness. In cases with bloody spinal fluid spinal puncture should be done daily until the spinal fluid hecomes clear Frequent spinal punctures are indicated also in the treatment of the meningitis which sometimes follows.

lows basilar fractures

The removal of fluid by spinal puncture is not without danjer as it may allow the cerebellar tonsils to be drawn downward into the foramen magnum with the production of medullary com pression and it may produce minute harmorrhages in the brain stem which may prove fatal Spinal puncture does not cause such a prolonged decrease in pressure as may be obtained from the use of hypertonic solutions

Localizing signs resulting from middle meningeal hamorrhage are discussed briefly. The author he lieves that dilatation of the pupil points rather directly to the side of the lesion and is a sufficient

indication for surgical interference

In cases of chronic subdural barnatoms the trauma may be slight and the symptoms may not develop until very late. Years after the injury surgical interference may hecome necessary to remove an old clot

For the removal of comminuted fragments the author uses the tripod incision with the wound in the center He helieves that subtemporal decompression is contraindicated in cases of coma from skull injury as it causes additional exdema and injury ROBERT ZOLLINGER M D

Fay T The Management of Tumors of the Posterior Fossa by the Transtentorial Approach
Surg Clii Vorth 1m 1930 x 1427

Tumors of the posterior fossa obstruct the path way for fluid either directly or indirectly. The aquedict of Sylvius and the outlets of the fourth ventricle are sometimes obliterated by compression or a lesion situated in the cerebellopontine angle may close the cisterna pontis on one side and displace the pons against the edge of the incisura of the tentorium thus obstructing the opposite pathway

In order to reach the middle fossa on its way to the vertex the fluid from the posterior fossa must pass through the narrow eisterna pontis. The tentorium divides the middle fossa from the posterior fossa in such a way that there is only a small space anteriorly and on the lateral aspects of the pons to permit subarachiond fluid to reach the eisterna chiasmatis above. Normully no fluid passes over the posterior surfaces of the cerebellum Hence comparatively small tumors in the cerebello pontine angle may produce a serious block of the fluid pathways and may be associated with a rapid rise in the intercanal pressure

The removal of a tumor of the cerebellopontine angle or of the cerebellum through the old midline suhoccipital approach is not always followed by relief of pressure as it may fail to re establish the fluid pithways to the middle fossa and verter. The failure is due primarily to the fact that the incisura produces a strangulation effect in the region of the pons and the fluid pathways once obliterated may hecome re adjusted only with difficulty.

The new procedure described by the author is a combination of the former postenor fossa approach for cerebellar and cerebellopontine angle tumors and the tentonal approach of Nafizgue Its purpose is to open the tentorium from the incisura to the lateral sinus freely and thus relieve the strangulation about the pons and permit decompression of the cerebel lum

A tumor of the cerebellopontune angle can he dealt with hy this method most sati factoril\ he cause of the larger expo ure obtained from above and helow the possibility of elevating and rotating the cerebellar hemisphere 'diet the tunorum his been meised and the facility with whi h the lateral smus may be ligated to permit complete exposure of the entire cerebellar hemisphere when neces ary It is possible by this method to advance as far as the posterior through process and to explore the

modific and posterior fosses on the side of the operation as well as the pineal reg on and the vermus of the cerebellum. The reactions following the prooedure vith or vithout hagation of the lateral sinus have been less severe than those following the midlies suboccipital approach and the results in cases in who the suboccipital approach has failed he ebeen highly satisfactory.

The operative technique is described in detail and five cases in which it was used are reported

DA TO J IMPASTATO M D

The first c se reported as th t of a man thirty one; years of age how elline a began with progressive torpor attense headache and convulst e serures a riet mes localized and of the packs m n type and sometimes general zed. I fecompres son trephina ton foll ed by deep radiotherapy, gave temporary relief but the symptoms recurred and hemiplegia de eloped on the right side. Be amutation of the eyes then disclosed bilater? papillodema. It a second operatin a tumor the size of an orange. In chi as rieme distributed and adherent to the dura matter is reme distributed and adherent to the dura matter is reme distributed and the electrocatery fir in the region of the paracentral gyrus and the osteoplastic shap closed thout drainage. Its tological e am natin a shot of

Inout graining in 10 tological e aim natal it is south neoplasm to be a meningism: the a structure resembling more closely that of a young glorous that that of a fibro end theli ma. There ere no oreas of hy line deg neration with secondary cale fication. Thirst em months after the operation the paisment as free from headaches and vir uail disturbance it is generated and a specific part of the secondary that the secondary cale fication is the secondary cale fication is the secondary cale fication is secondary to the secondary cale fication is the secondary cale fication is the secondary cale fication is secondary cale fication.

The sec nd case was that of a th rity four vers old man who sellness begin in the convolve see setures and eakness of the left leg and arm. I've ye is later he had jacksoman c nuvals in the entered the hoop tal with hemplegia in 1 prip fluedema on the left side. A toperation a popular of a turn r vase moved from ther landscarea in the thermocautery. The specimen measured 80 y gim a don't not looperate amount to the proposition of the proposition

The th rd case vas th t fa man thirty six vears old who sught tre timent on account of that culty n walking and epileptic attacks. The illness began rather suddenly with a seve e att ck of jieksonian convulsions and loss of c use cousses. Since then the patient had had repeated attacks often preceded

by an aura which usually consisted of a tingling sensation in the great toe. He entered the hospital with a left hemiplegia There vere no ocular dis turbances The Wassermann reaction was negative At operation a yellowish tumor measuring 3 by 4 cm was found in the rolandic area on the right side over the paracentral gyrus The neoplasm was re moved under local anaethesia with the electrocau tery At times during the operat on the pat ent was nauseated and experenced difficulty in speaking Histological examination showed the tumor to be a cerebral ghoma Postoperati e radiotherapy vas gi en over both parietal regions 1 year and four months after the operation the patient was carrying on his work as an agriculturalist but nine months later he died after sudden recurrence of his symp toms and autopsy disclosed recurrence of the tumor

The fourth ease was that of a man't enty eight vears old ho was seized with a sudden sensatio like a blom ou the head follo of by numbness in the left side of the head and the left arm. Three weeks later he had a sim lar attack which was limited chiefly to the left facal region and was associated.

th inclination of the head to rard the left shoulder Later difficulty in a alking particularly ith the left leg de clope! There as n evidence of syph ! sand no ocular defect \toneration under local angesthesia an o teoplastic flap as elevated a er the right from t parietal reg on and a soft pseudocystic tumor measur ag 6 by 4 cm as found adherent to the dura mater o er the rolandic reg on Histolog cal evaru nation sho ed the les on to be a peripheral type of f br gi oma sth polycystic degeneration T e tv one hours after the operation the patient became comptose 1 d agnosis of hamatoms i as then made is re operation a hamorrhage from a small vein of the dura mater as found This ein was I gated and a gauze drain inserted. It e months after the op eration the patient as free from sensors distu b ances headache and facial para thesia a d the fac al hemisparess as dimini hed. There was definite impro ement in the alk and in the left arm In spite of hypotomicity voluntary movement nas n tmal

These four cases were el meally a milar in the fact that the disturbances began it it hanksonana epilepsi hich led to monopilepsi or progressive hem plega lin the last it o cases there were no changes in the cerebrosp nad flud nor in the eye grounds. The field into el elby they elsewinst non ulsons was gradually extended. The author emphasizes that it is important to operate before the de elopment of complete bemuleg a and before the intracranal pressure i successed.

Piri G O Su gery of the Symp th itch rus Sy tem T atment of N uralgl of the Tri facial Nere (C tbil lahus di tm c wo git La dlla i dltgm ) titld try 93 357

Resection of the superior ganglion of the certical sympathetic for the treatment of severe neuralg a of

the trifacial nerve was done for a while and then given up in favor of operation on the gasserian gan glion In order to test the value of the former pro cedure the author tried it in three cases which be followed up for from four to five years The results were variable. In the first case there was slight im provement for several weeks. In the second, the operation appeared to be followed by a true cure but after two years the pain recurred In the third case that of a patient seventy seven years of age the op eration brought about remarkable improvement which has been maintained for five years. The at tacks now occur only at long intervals and are very mild As very little is known regarding the nature of neuralgia it is impossible to give a satisfactory in terpretation of these variable results

The author concludes that operation on the sym pathetic is indicated in the cases of very old patients in whom operation on the gasserian ganglion is not without danger and in cases of atypical neuralgia in which operation on the gas erian ganglion is often AUDIEY G MORGAN M D meffective

#### SPINAL CORD AND ITS COVERINGS

Brugeas Two Cases of Lumbosacral Spina Bilida (Deux obse vations de spina bitida lombo sacre) Bull et mêm Soc t de chir 1930 hi 1214

The first case reported was that of a man thirty four years of age who entered the hospital because of lymphangitis of the scrotum and urinary disturb ances. Since his early youth the patient had had disturbances of unnation and defæcation He passed small amounts of urine frequently often involun tarily and suffered from constipation alternating with diarrhoca. For two months he had bad a suppuration of the scrotum associated with fever

The scrotum was enlarged and infiltrated On its postero inferior surface an abscess had opened There was slight hypospadias The legs were normal in appearance but somewhat emaciated Walking was very difficult. The knee jerks were markedly exaggerated but there was no epileptoid trepida tion no Babinski sign and no clonus of the foot Sensibility was normal so far as perception was con cerned but the patient state that he had painful sen ations in the leg especially at night

Examination of the spine disclosed in the lumbar region a firm tumor the size of a large orange which the patient said was congenital. This tumor was slightly ulcerated in the center and was surrounded by a collar of hair Pressure upon it caused dull pain in the legs Beneath the tumor an opening in the vertebral laminæ could be felt. The roentgenogram showed sping bifidg of the fourth and fifth lumbar

At operation the tumor was found to have a pedicle 2 cm long and 1 cm thick On each side of it the dura mater was thickened. The neoplasm was removed without opening the meninges

On section it had a fibromatous appearance. It was white and elastic and presented small necrotic foci Histological examination disclosed no evi dences of malignancy

The operation was followed by a complete change in the nervous phenomena. At the end of a week the reflexes were much less active and when the patient left the hospital they were nearly normal. The fre quency of urination was reduced. The constipation with involuntary loss of faces persisted for several days but at the end of that time the bowels moved once daily. When the patient left the hospital the dull pain in the legs persisted but was greatly de creased and he was able to walk more easily and with more assurance When he was seen again a year later he was able to work normally and to walk long distances without much difficulty. The pain in the legs had ceased and his general condition was greatly improved

The second case was that of a man twenty one years of age who entered the hospital on account of nocturnal pain in the legs and a tumor of the lumbo sacral region of the spine. The tumor had been present since his infancy but had become larger during the last six months When the patient was examined by Brugeas the tumor was the size of a large orange The skin over it was normal There was no hair and no angioma. The tumor seemed to be adherent to the deeper tissues Lobulation could not be felt Deep palpation disclosed irregularities in the osseous surface There was no pain. The legs presented no deformities or motor troubles. The reflexes were normal There was no trophic disturbance. The pa tient stated that he had had incontinence of urine since the age of twelve years The roentgenogram showed spina bifida of the first sacral vertebra

At operation Brugeas extirpated a large cyst con taining about 100 c cm of sebaceous matter which penetrated between the sacrolumbar muscles There was no pedicle. When the muscles were separated after removal of the tumor dehiscence of the first sacral vertebra was seen. The dural sac appeared normal and was free from adhesions

After the operation the nocturnal pain persisted for two or three days but by the twelfth day when the patient left the bospital it had completely

ceased

LEVEUF who read the report of Brugeas before the Society stated that in his opinion spina bifida occulta was present in the first case reported by Brugeas but that the so called tumor was a chronic inflammation originating in the ulceration of the teguments He believes that Brugeas second case was a case of dermoid cost of the sacral region de veloping in a subject in whom the posterior arch of the first sacral vertebra was incompletely ossified

Two Cases of Spina Bifida with a Solid Tumor (Deux observatio s de sp na bifida avec tumeur ol de) B ll et mem Soc nat de chir 1939 lvs z 18

In the two cases of spina bifida reported by the author there was found under the normal skin a lipoma which obscured a cleft in the lumbosacral or sacral vertebre. In the hottom of the eleft there was a meningeal sac or meningocele to which the superficial tumor was partly adherent. When the meninges were opened a medullary cord was decovered hich triversed the earity and was in serted at the bottom of a meningeal sac at 1 point corresponding to the zone of superficial adherence to the tumor \(^1\) solid tumor surmounting a spina bridd as are is usually a lippona \(^1\) Myoffmed bridge and the recommendation of the more common than pure lipomata. In the author's two cases the principal tumor was a true lipoma. Leveuf does not consider spina bridd with tumor a distinct entity.

The primary claracterities of true spins high docution in which there is a medularly milliormation is abnormal fixation of the cord. It has been established that the stype of spins high ash as a presents a tumor of variable size at the point vhere the ectope cord ends. Consequently if operation is limited to extingation of the tumor without opening of the dura mater it will have no effect on the abnormal fixation of the cord. The milliormation influences the appearance of the secondary symp.

toms of sp na bifida

The symptom f spina bifda vith or without a visible tumor may be classified as primary and secondary. The primary symptoms are present from birth and eaused by the medullary mildrimation the myelodysplasia. In cases, it has such symptoms and terminal insertion of the cord, the cord which tra cress the sac represents that portion of the spinal cord, which under normal conditions would atrophy to form the conus and the flum terminal. The primary nervous disturbances are due not to the abnormal fration of this part but

to retrograde lesions of the cord itself some of which extend a great distance from the spina bifida. Levent has observed various medullary lesions—hemi atrophy of the cord hydromyelia and syringomyelia

The secondary symptoms of spina hinda appear at the secondary symptoms of spina hinda appear at large and intrameningeal to compress the spinal cord compression by the tumor is seldom the cause of secondary symptoms. More important causes are elongation of the medullary cord of the spina are elongation of the medullary growth and the evolution of the medullary issues themsel es inmedullary fluid collections (by drompel a syringomyel a) increase with time and compress or destroy the medullary tissue by which they are surrounded

The primary lesions are incurable but the secondary lesions can be prevented if operation is

done early

The operation includes the following steps (1) dissection of the lipoma as far as its mertion on the meningeal sae of the spina brida (2) ope ing of the duar mater in front of the zone of adhe ion heration of the cord and if the cord is distended by a fluid collection exacuation of the fluid (3) closure of the meninges and (3) closure of the remininges and (3) closure of the spinal fissure by means of two pedunculated aponeurotic flaps cut in the neighboring reg on

In the live operations which the author performed for spins bild a covered with epidermis (including the two reported in this article) there was only one death and that death was due to the anasthetic. The position of ventral decubitus in which Level keep his patients after the operation is an important

factor in cure

## SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Neal M P and Simpson B T Diseases of the Male Breast J Missouri State M Ass 1930 xxvii 565

Of 5 000 breasts submitted for pathological exami nation to the New York State Institute for the Study of Malignant Disease Buffalo N \ and 314 ex amined in the Department of Pathology of the Uni versity of Missouri Medical School Columbia Mis sours only 15 (2 86 per cent) were from males Of the latter 54 (35 52 per cent) showed a non neo plastic disease (4 acute mastitis 47 chronic mastitis and 3 cysts) Sixty (39 47 per cent) presented a be nign tumor (6 a lipoma 6 a fibroma 45 an adenoma and fibroma 1 alymphangioma 1 a papilloma of the skin and r an adenoma sebaceum). Thirty five (23 02 per cent) presented a malignant tumor (7 a sarcoma 3 a carcinoma of the skin and 25 a car cinoma originating in the ducts or acim) Eighty per cent of the malignant tumors were carcinomata and 20 per cent were parcomata

There were no cases of tuberculous mastitis keloid Paget is disease fibro adenoma cysticum or endo thelioma. In the total 5314 breasts examined the ration of benign lesions in male and female breasts was 12344 and the ratio of malignant tumors 1682, EARLO LYIMER M.D.

Rousset J The Anatomical Structure of the Human Nipple and Its Pathological Conse quences (La constitution anatomique du mamelon human se conséquences pathologique) Gynée t obit 1930 NII 205

In connection with a study of Paget's disease the author made an extensive investigation of the normal breast in both autopsy and operative material. Longitudinal and transverse serial sections of the breasts of women of all ages were examined. It immediately became apparent that the standard descriptions of the normal nipple are not entirely exact and that the individual variations in structure are very great.

The nupple is ordinarily described as an evagina tion of the areola the lactiferous ducts occupying the axis of the structure. While this is true to a certain extent the ducts sometimes diverge to open at the periphery of the nipple or converge toward a point at the periphery.

When the ducts remain in the axis of the mpple they may open on the surface separately More often they become lined with stratified squamous epithelium at various levels and opening into one another terminate in a central infundibulum of varying size. In still a third type they diverge to the periphery of the nipple opening onto the skin

at an angle and leaving the central portion occupied by connective tissue muscle vessels and nerves These different arrangements determine the situa tion of the sebaceous glands which are adnexa of the ducts

Over the base of the nipple the epidermis is very thin like that of the areola but over the extremity it is thick. the interpapillary pegs being highly de veloped and often bifurcated. In elderly women the cells of the malpighian layer often have retracted nuclei even at a depth where no keratinization has occurred. This change is believed to represent a dyskeratosis. In women of from thirty five to forty years of age who have lactated the cells are nu merous whereas in young women they are few merous whereas in young women they are few

Sebaccous glands are numerous Their arrange ment has received hittle attention They are most abundant at the tip of the nipple. When opening on the skin surface the excretory canals are formed by an invagination of the squamous epithelium of the epidermis. In these canals, the cells showing diskeratosis are numerous. Other sebaccous glands discharge into the lactiferous tubules. These are described as adnexa of the lactiferou ducts.

After becoming lined by squamous epithelium the ducts often mastomose. It is in this portion that the sebaceous glands discharge. The ducts of the sebaceous glands appear to be formed from diverticula of the squamous lining of the lactiferous ducts.

After the menopause the only appreciable changes are seen in the connective tissues which undergo atropby and retraction Cells showing dyskeratosis are especially abundant

The structure of the male nipple is the same as that of the female nipple except that the ducts are smaller the sebaceous glands are less numerous and dyskeratosis is rarely present

Dyskeratosis is normally found in the nipples of all women after a certain age. The cells are especially numerous in the squamous portion of the duct epithelium both the lactiferous and the sebacous. In young women they are found in the ducts of the schaceous glands and it appears to be from here that the change spreads to the structures of the nipple.

Paget's disease affects the mpple almost exclusively. Its most common sites elsewhere are the vulva or the glans. The one structure common to the mpple vulva and glans is the schaceous gland without hair follicles. From these glands I aget's disease is believed to have its origin. This theory is confirmed by a study of the epitheliomation dyskeratosis of Bowen. In a case of Bowen is disease of the vulva with metastasis to the inguinal lymph nodes which was studied by the author the cancer was of the type associated with Paret's disease.

The large clear cells described by Danier im properly called Paget cells are believed to bear a distinct relation to the cells showing dyskeratosis in the normal breast. The author believes that Paget's disease is an early carcinoma originating in these cells probably in the ducts of the sebaceous glands and spreading to the lactiferous tubules and the skin

The article contains numerous illustrations LBERT I DE GROAT M D

Lee B J Significant Problems for the Obstetrleian in the Field of Mammary Cancer 1m J Ob t & G C 103 775

When mammary cancer is complicated by pregnancy the prognosis is unfavorable. Immediate therapeutic abortion should be done. If the patient's condition permits radical mastectomy should be performed at the same time if not this operation should be done as soon alter the abortion as pos sible If the patient is unwilling to submit to im mediate sterilization of the ovaries by high voltage roentgen irradiation she should be warned against becoming pregnant again

A condition of special interest to the obstetrician is inflammatory carcinoma of the breast. This is often seen in young women and may appear during lactation. The diagnosis may be extremely difficult Radical surgery yields poor results. The patient will survi e longer with less discomfort if she is treated

entirely by irradiation The author states that a malignant neonlastic lesion of the female genital organs is found in every

200 cases of mammary cancer In the discussion of this report AUCHINGLOSS said that the prognoss of carcinoma of the breast 1 very d ff cult to determine as patients who are seem ingly i operable may remain well and patients who are apparently curable by operation may de in a short time

White stated that in the diagnosis of inflamma tory carcinoma of the breast transillumination is of considerable value. He believes that diagnostic needle puncture associated ith considerable danger of sp ead g the cancer cell by the blood stream and lymph channels. He advocates radical surgery in the tre tment of this condition as be cons ders the insert on I radium needles or seed a haphaza d method

DICKINSON presented a method of graphic repre sentation he has found of all ein the study of breast conditions L Co T MD

M Glann n A Blue D med Cysts and C neer of the Bast 1 h S g or

McGlan an reports three cases of the s multa neous presence of cancer and blue domed cost of the breast. These we e found in a series of 100 cases of m mmary care oma In spite of the fairly d stinct characteristics of the blue domed cyst no clinical examinat on can show the condition of the cost wall In certain instances there may be n area of acti e

epithelium which is potentially malignant. The author therefore believes it best to excise all blue domed cysts and to examine the surrounding breast tissue as well as the wall of the cyst for areas of malignancy J COB M MORA M D

D Aunoy R and W ight R W Sarcoma of the Breast 1 5 g 193 xc1 1050

The pure connective tissue type of malignancy of the breast is rare The authors record the ir cases of sarcoma of the breast which have been treated at the Charity Hospital New Orleans dur g the last twents five years and briefly review the litera ture on the condition

In 1917 Deaver collected 838 cases of sarcoma of the breast from the literature but concluded that because of faulty classification of the tumors this number did not indicate the true incidence of the neoplasm He stated that the 15 cases which came to operation at the Lankenau Hospital Ph ladelphia in a period of sixteen years constituted 2 per cent of the total number of cases of breast tumor treated at that he pital during the same period of time

In addition to the rr cases of mammary sarcoma reported in this art cle 1 035 cases of mammary car cinoma have been treated at the Charity Hospital Ne Orleans during the last twenty fi e years a total of 1 016 cases of breast malignancy

The cause of sarcoma of the breast like that of other types of malignancy has not been established However it is recognized that the presence of a beingn tumor of the breast may be regarded as of importance in the development of malignancy While secondary mal gnant changes in the benign growths are usually carcinomatous they may occur also in the connective tissue elements of the organ

with the production of a sarcomatous tumor In the vast majority of cases there is a bistory of a symptomless stationary tumor of many years duration (forty years in a case reported by Sutton) bich suddenly began to grow rapidly Although trauma must be considered a factor in a few in stances the authors believe with many others that it is usually not very important in the product on of sarcoma of the breast

The youngest pat ent whose case is reviewed by the authors was twenty three years old and the oldest se enty five. The average age of the It patie ts s forty four and fiteen hund edths

years. As a true of all other pathological condit one of the bre st sarcoma is much more f equent in the female than in the male. Only I of the cases re viewed by the nuthors was that of a male. It is bel e ed by many that pregnancy and lactat o are of I ttle importance in the origin of breast sarcoma If this is correct it seems just hable to attribute the h gber incidence of breast sarcoma in the female to the higher 1 c dence of hen gn tumo s of the breast in the female

With reg rd to the etiology of mammary sar comata it s of gre t importance to cons der the adenosarcomata for even though they are a ratber specific form of mixed tumor they probably have the same origin as most pure sarcomata at least those of the true spindle cell types eventuating as a result of malignant transformation of fibro adeno The true adenosarcoma presents many variations in structure and is comparatively rare. It is often mistaken for a rapidly growing carcinoma with anaplastic spindle shaped or round cells grouped about the hypertrophied ducts

Of the pure mammary sarcomata the spindle cell sarcomata constitute a rather well-defined group In these cyst formation is prominent and a combination with other tissue types has been noted The diagnosis is not simple as very often atypical carcinomata present large areas of spindle shaped cells Tumors of this general type presenting marked or short spindle cells are the most malignant

The round cell sarcomata constitute an ill defined group insofar as their nature and structure are concerned Many growths classed as round cell

sarcomata are atypical carcinomata

In many cases of sarcoma of the breast in which the avillary glands have been found enlarged they showed no histological evidence of malignancy Glandular hyperplasia may be due to sepsis Of 68 cases studied by the authors histolopically proved metastasis to the lymph nodes was found in 4 and histologically proved metastasis to the lungs in 2

It is generally believed that sarcomata of the breast may remain stationary in size for months or even years after they are first noticed and that when growth ensues it i usually very rapid the tumor usually attaining gigantic proportions before the patient comes under the observation of the surgeon Hamann states that the typical tumor is partly cystic and partly solid and that the avillary glands are usually not involved. While early diag nosis may be difficult he believes that a large tumor of the breast which is partly cystic and partly solid not adherent to the skin and not associated with axillary adenopathy is probably sarcomatous

The general health is usually less impaired by sarcoma than by carcinoma of the breast in spite of

the rapid growth of the former

In the cystic types of sarcoma there may be either a hamorrhagic or a serous secretion from the nipple but in the solid types of sarcoma there is no secretion

The nipple is rarely retracted and the skin is never adherent to the tumor in sarcoma of the breast but ulceration of the skin occurs early tumor seemingly hangs away from the chest wall and is freely movable

Histological evamination is the only certain method of diagnosis as many clinically henign tumors contain sarcomatous areas and there are no pathognomonic clinical signs or symptoms distin

guishing sarcoma from carcinoma

Sarcoma of the breast is a purely surgical condition As the vast majority of the cases on record were reported almost immediately after the operation it is not known whether the radical amputa tion offers advantages over simple mamectomy However because of the malignant nature of the disease the authors believe that radical amputation is the procedure of choice | Joseph L Narat M D

#### TRACHEA LUNGS AND PLEURA

Van Allen C M and Lindskog G E Obstructive I ulmonary Atelectasis Problems of Patho genesis and Clinical Management Arch Surg 1030 XXI Pt 2 1105

In experiments on dogs the authors found that complete lobular obstruction was followed not by atelectasis but by airlessness of the entire lobe. It was demonstrated also that the incidence and rate of atelectasis formation after total bronchial occlusion are variable. The explanation of the failure of atelectasis to develop when only a part of one lobe is occluded is that the partitions which divide one alveolus from another and one lohule from another in a single lobe of a lung permit air fluids and tine particulate matter (India ink) to pass The mechanism of this passage is not clear but it ap pears that there are anatomical connections pos sibly pores in the alveolar walls

The clinical management of atelectasis consists in aiding the natural eliminative and expelling forces such as cough bronchial peristalsis and ciliary ac tion Cough has an evpulsive effect on an obstruc tion only when there is air in the occluded part of the lung (lobular obstruction) The foot of the bed should be elevated and the patient sposition changed frequently In some cases carbon dioxide and steam inhalation may be indicated Bronchoscopic as piration of the obstructing material may return the

atelectatic lobe to normal function

J DANIEL WILLEMS M D

Coryllos P N and Birnhaum G L Alveolar Gas Exchanges and Ateleetasis The Mechanism of Gas Absorption in Bronchial Obstruction 1r h Surg 1930 vvi Pt 2 1214

Coryllos and Birnbaum describe in detail an experimental method which shows that when a bron chus is completely occluded the entrapped alveolar air undergoes rapid qualitative and quantitative changes which may be determined by successive gas analyses Qualitatively the percentages and the par tial pressures of the gases of the air in the alveolitend to reach an equilibrium with the gases of the venous blood However this equilibrium is never quite at tained Quantitatively the gases entrapped in the alveoli pass through the respiratory membrane into the blood circulating in the alveolar capillaries the process continuing until complete atelectasis is pro duced The mechanism by which this takes place is identical in bronchial obstruction and compression of the lung from such causes as pncumothorax pleural exudate and intrathoracic tumor

In addition to their study of the diffusion of the gases of the air the authors experimented with other gases by introducing them into a ling previously rendered atclectatic. The gases used ere (1) active gases such as bydrogen introgen and helium and (3) anashetic gases or and helium and (3) anashetic gases or appros such as thylene mirrors orde ethyl chloride and ether. With the first and second the same phenomenon occurred as in the case of entrapped alvedar air—a qualitative and quantitative establishment of gas equibrium. The results with the anasthetic gases are not completely discussed being reserved if a nonther article protection.

The auth is use a new experimental method consisting of a glass covered vacuum box which allows direct vision of the open chest and direct of seriation of the pulmonary change during the experiment

The mirrogen of the respiratory ur plays the part of a mechanical buffer. It retards absorption in the all coli of the more d flusible and m re's luble rases

From their experimental studes on the obstructed lung the auth resounclude that the disappearance of alreada fair I due to absorption by the circulating, blood and that pneumato I am I result unless the alreadar gase are completely shut off from the external a M re no owing of the bronchi cunnot produce at lecta I on the contrary it may cause emphysems.

In dis using the report Lee stated that he was convened that ob t uch a is not the only factor concerned in attlect 1 that it 1 not the primary et 1 g c 1 factor but a late 1 te mining cause

Listevitiva, and that during of eath in he had seen repeatedly posts I acted out by nitings seeral continueters in diameter. These could be gradually distended by in reasing the uniting blavinge 1 pes view 18 ugges ted that this type of attectast may be due to spasm if the lung a condition with the continue that is nither in in the lung tis.

CONVILOS be v 1 th t also by pores are not neces a 1 for the ps ge of g set thr with the also larvall 1 it can be h at hat gae diffuse thr with the vall in 6 the dir t n. Th pas age imme h at by ceases h a th also lar valls a e rendered ordemat us a by the manifestation of the rap r.

Loso stated that telect is is not all ays due to by rich all obligation and of the pulmonary to me the may be caused by c might be not all other pressors not the pulmonary to me from a though and a ten may might also pressors not the pulmonary might also provided the found. He be the say a pol und to all distortisance of pulmonary function is apable of preducing it to Cosyllos in an as engl. Lienthal stated that all broncho pasm news causes omplete obstruction.

Phillip F W Hydatid C<sub>2</sub> to of the Lung A Re view of th R co d d N th Amelican Ca 5 1 / S g 93 It 4

Phillips reports to case I hydat d cysts of the lung and b elly tweens that y four collected from the interature I and the that y as cales we enhose of petsons known to have been born in the United States Philips has accepted as cases of prima y by datid cysts of the lung all those with a fairly defimic protuce of intrapulmonary cyst is bether or not there v as evidence of infestation in other parts of the body. Cases of secondary modernent of the lungs usually manifested by the expectoration of the hodatid elements following penetration of the dia phragin and adherent lung by a cyst of the liver are not included:

Next to the liver the lung is the organ most commonly invaded. Various statistics give the incidence of involvement of the lung up to 20 per cent

The author describes the evolution of a hydrid cust of the lung. The cyst consists of an outer lamel lated very classite custode and an inner parendyma tous or germanal layer. Cysts in the lun sincrease in sure more rapidly than custs elsewhere in the body because of the lack of rest tance to expansion officed by the compressible lung tissue. Vs the cyst gross it becomes surrounded by an adventitious layer of through the stormed from the host. When the cyst has reacted about the size of a walnut brood cap sules are if come the german layer producing great numbers of scolees. Cysts of the lung usually do not contain day there exists.

The fate of the enharging pulmonary hydatic cyst depends in its nouri hieral the effect its pessure can es on the surrounding to sue and its location in the lung. The most frequent sequela affecting the prigress of development of a cyst in reputire into a bir active. Central cysts develop near the hius and may be silent [7 i long time. When a cyst reputires.

be nehus. Central cysts develop near the h lus and may be silent f ra long time When a cyst ruptures into a bronchus its contents are expectorated and if the opening 1 suff eiently large the germinative mem brane may pass and recovery may I llos the retrac t on and creatrization of the walls of the cavity. If the opening into the bronchus a too small t permit p ssa e f the endocyst infection occurs in the rup tur I cyst and the picture becomes that of broncho pulm n ry suppuration Peripheral cysts involve th pl u a so n causing pleural pain O crisionally a east may runture into the pleura or pe icardium After infect on has occurred in the cast rupture into the pleural cavity r sults in pyothor v r pyopneu m th rav When an uncomplicated cast suptures int the fleura it pro luces a hydrothorar When it ruptures nto a bronchus simultaneously it cau es a had pneumotherat

The symptoms of pulmonary hydat didisease vary according t the cond tion of the cost They may be divided into tw groups-those produced by uncom plicated cysts and those which follo v rupture of a cast During the early period of the growth of the pa asite fe if any symptoms are p oduced E cept I r occasional anaphylictic phenomena the echin coccus is well tolerated by the host until pressure is made on surrounding structures by the increasing I res ure on broncht excites the size I the cyst cough refle and cough is the commonest symptom Lros n of the walls I blood vessels finally results in ulceration opening into the lumen of a vessel vith hamorrhage into the bronchial tree Hamopt) \$15 an important symptom in pulmonary inf station

When rupture into a bronchus occurs the bronchial tree is flooded by fluid having a salty taste and pieces of the cyst wall are expectorated Infection usually follows rupture the picture then becoming that of bronchopulmonary suppuration

In the diagnosis roentgenographic and fluoroscopic study is indispensable. The rounded or oval shadows with distinct edges are characteristic. Other diag nostic aids are the complement fixation test and the Casoni intradermal skin test The author compares the results of these tests in two tables

The treatment is surgical. The plan of surgical attack depends upon the condition of the cyst The uncomplicated cyst is an entirely different problem from the cyst that has ruptured into a bronchus and has become infected Ruptured cysts are dealt with satisfactorily by the measures commonly employed

for pulmonary suppuration

The first case reported by the author was that of a girl nineteen years of age who was born in New York State and had never left that State Cysts were found in both lower lobes The cyst on the left side had ruptured into the bronchial tree and had become in Following its removal by pneumotomy a secondary plastic operation was necessary to oblit erate the residual fibrosed lung cavity. The cyst on the right side was removed by a one stage operation Recovery resulted

The second case was that of an Italian thirty five years of age who had been in the United States about sixteen years A large cyst in the right side of the chest was treated by removal of the contents and excision of the greater part of the external wall No scolices or hooklets were found in the contents The author believes that this was a case of large hydatid cyst which had terminated its growth by

obsolescence In the discussion of this report LILIENTHAL stated that in his opinion it is advisable to operate in two stages—first to remove the contents of the cyst and later in an aseptic field to remove as much of the calcified capsule as possible He cited a case in which he drew out the wall of what must have been an enormous hydatid cyst from behind the sternum taking out one piece every day or two until all had been extracted The patient recovered As this op eration was performed long ago roentgenographic study was impossible

MEYER cited a case he saw in 1882 in which the pleural cavity was punctured because all of the symp toms pointed to empyema A yellowish rather tur bid fluid was obtained. At operation a great many large and small cysts were found floating in the fluid The tumor was a by datid cyst of the pleural cavity

The patient recovered

JOHNS cited an operation he performed for hydatid cyst of the right lung in a Virginia medical student who had spent two years abroad during the World

War Good recovery resulted Convilos warned against diagnostic tapping of the cysts As the patient is often highly sensitized by hydatid fluid even a fraction of a drop entering the circulation or the subcutaneous tissues may produce severe anaphylactic shock. Corvllos cited the case of a woman twenty five years of age who almost lost her life as the result of exploratory puncture second danger of puncture is the possibility of spread ing scohees and thus causing secondary echinococcosis Coryllos therefore believes that Deve's method should always be employed

Lambranzi M The Radiological Aspects of Pul monary Tuberculosis Associated with Surgical Foci (Aspetto radiologico particolare nelle forme di tubercolosi polmonare associate con quelle chirur riche) Radiol med 1930 tvii 1183

Lambranzi describes the roentgen picture of pul monary tuberculosis which is observed in persons

with surgical tuberculosis

From the clinical point of view this form is analo gous to the fibrogranular tuberculosis of Bernard and Seye and the discrete granulia of Bard The asso ciated presence of surgical lesions leads in the lung to a typical fibrous condition which usually progresses slowly and especially in the early stages causes few or no characteristic symptoms

With regard to the roentgen picture the author believes that the formation of nodules which are not extensive but rather involutive or sclerotic may be explained by the assumption that the surgical tuber culosis constitutes a focus of vaccination which has the power to prevent the rapid and acute develop ment of the infection in the lung

#### O Brien E J Tile Mechanics of Collapse Therapy and Its Indications Observations in 700 Cases 1rch 5 rg 1930 Tx1 Pt 2 1134

The constant activity of the lung incident to respiratory movements interferes with the healing of tuberculous pulmonary lessons Rest in bed afford some degree of rest for the lung but collapse therapy is the only means by which the lung can be placed at complete rest

Artificial pneumothorax collapses the lung re laxes the elastic tissue reduces the lung volume and limits the respiratory excursion. Operations on the phrenic nerve produce the same effect by paralyzing the diaphragm removing its muscle tone stopping its movements and sucking it up higher into the thorax by negative tension Thoracoplasty removes the rigid bony support of the thoracic wall and im pairs the function of the respiratory muscles

Surgical collapse therapy is indicated in all uni lateral tuberculous lesions unless they are so small that rest in bed alone will suffice and unless the lung is consolidated or pneumonic or there is some other complication which would render such treatment useless

Collapse therapy 1 not curative in any form It

merely favors healing

In the discussion of this report Lilienthal cited a case in which he induced pneumothorax after phrenicectomy and pushed the relaxed diaphragm down lower than it was originally

LEWALD reported a case in which he obtuned excessive clevation of the disphragm following phrenicectomy. The immobility of the disphragm allowed gas to become trapped in the gastric card a thereby cau ing severe gastric distress. This complication cannot occur on the right set.

I DAZIEL WILLERS M D

Sacls W Th T atm at of Pulmona y Tuber cul sis by Th racopla tv (De B h dl g d r L tube lul mt Th ak pla 13) B 1

El d T b tk 1930 lx 54

With thoracoplasty one can count on recovery in one third of the cases improvement in one third and fa lure in one third. The strictest indication for the operation is therefore e sential. A prerequisite is the hopelessness of any other therany.

Sachs u es artifici | pneumothorax instead of thoracoplasty as the method of choice because it may be employed subsequently for disease of the other lung or may be induced bilaterally whereas thoracoplasty produces unalterable conditions v hich are associated with great dinger if the other lung becomes involved. According to Sachs e perience the danger of empyems in artificial pneumothorax is not so gre t as some chest surgeons have stated Such has had no empy ema in 800 cases of pneumo thorax with 40 oo re injections Artificial pneumo thorax is of special ad antage also because the col lapse can be terminated the proce lure is associated with a relatively low mortality and according to Brauer the collapsed attained in complete pneumo thorax is one third more than that attainable by thoracoplasty Of 36 cases in which Sachs per formed a thoracoplasts he prece led the operation by pneumoth rax t eatment in r8 In the other 3 the attempt at the nduction of pneumothoras failed S chais rathe skeptical ith regard to tamponade but states the tenhenico exere a should be tried in c ses v th moderate e tension of the di ease as it m y render thor coplasty unnece ary

E act r lesa to the addictions for thoracoplasty cann t be given. The decision is largely a matter of c pe enc and feelin s e e y c se has its peculiar its. The peration is cont a indicated in the cases of p tients o e forty f e verts of age and those with a high fee and a rap dip p ogressing pocessing a licher matter of mouth a possible properties and severe and chronic content of the degree of mouth a possible properties of the colors of the degree of the colors of the degree of the de

Sachs us ally performs the operation under local anaesthesia and in doubtful cases in 2 stages. The trapezuus 1 spared as much 2 sposs ble for f nettonal and cosmet c re sons. The long back muscles must be well d in a side. Passive and active mot on of the arm on the side which has been operated upon

is begun on the third day. I xercise therapy is gradually increased according to a definite plan.

Of 36 patients, 10 vere cured, 9 were benefited.

and I vas not benefited. Three died within the first to years and 4 died shortly after the operation.

At the end of the article there are several case.

At the end of the article there are several case bistories illustrated with photographs and roent genograms PLEN (Z)

Be n u A Fruchaud II and Bernard R The T chnique of Thoracoplasty of the Apex with Apicolysi by the Post rior Route (Te hange del tho pl t du mm t ap lys p to pot 1 e) it h ld-ch d lapp p 93 o

As a rule the authors do not try phrenicectomy for less ons of the apec of the lung as their method of parti I thoracoplasty gives good results more often and more quickly than phren ecctomy. More over there are two types of lessons which are not greatly influenced by phrenicectomy (3) old fibroulecrous lessons of the apec in which retract on long freed by a thick and rigid connective t sue can neither close a supportating cavity nor dry up sputum full of bacill and (3) large cavities of the apec in which fall healthy it sue has been destroyed

During the evening before and on the morning of the operation the patient is gi en 30 drops of somnifene and a half hour before the operation an injection of morphine \ll of the tissuesteguments muscles and intercostal nerves-are an esthetized simultaneously v th a 1 200 solution of scurocaine The patient i placed in lateral decubitus ith a cush on under the last r bs and the costo iliac space another cushion under the neck and a th rd cu hion under the he d The table may be included so that the head i a little higher tlan the feet The surgeon stands behind the patient one assi tant opposite and another as sistant at the patient's shoulder to hold the retrac tors and bring the shoulder closer at the end of the operation to facilitate the suturing

The incision begins very low preferably at the spine of the scapula parallel v hits spine of the scapula and pixes by a cma circus far out and so that it completely f ames the point of the scapula and pixes by a cma critical line der a through this point. It is sho in in all light to it to the lattis must distribute to it cuts the lattis must distribute premuting an easy ripid and not very painful operation. The scapula i rai ed separated and suring around.

In the first step the skin the trap arus and the latissimu dorsi are necesed. Then the rhomboud sectioned The b stoury must not cut into the verteb al muscles just below. Laceration of the muscles must be avoided and perfect harmostass must be obtained with the use of numerous harmostats. In the second step of the operant on the scapula separated from the thorav. When it has been freed it takes a vertical position perpendicula to the r bs. In the third step the muscles of the vertebrial groove are freed. In the fourth step the

lower costal resections are done The authors make two incisions one the length of the posterior border and the other the length of the inferior border. Thus the periosteum of the external surface is resected with the rib a procedure which decreases post operative osseous proliferation runnes are used in the operation.

The second and sometimes the third rib must be resected by a technique resembling that of resection of the first rib The external border of the second rib is reached first. Liberation of the entire pleural surface is done before the upper border and the supero external surface are freed. In resection of the first rib the finger must find the tuberosity and the external border of that rib. On the external edge the mass of the scaleni is cut with the bistoury close to the bone for a distance only of 2 cm The rugine soon replaced by the finger then frees the pleura Beginning close to the posterior extremity of the rib the liberation is continued anteriorly The lung detaches itself The freeing of the pleura is completed to the sternum and the lung pushed lower forward and inward. In this way a true apicolysis is accomplished. To render the collapse permanent the first rib must be extensively re The resection always goes considerably beyond the scalen; and the rib is cut in front of the infraclavicular vein hence in the region of the chondrocostal junction

The muscles are sutured in a single layer with case and the most length of the operative field below the muscle suture and is brought out through a small opening made with the bistoury below the incision The end of the drain is placed in a beaker of oxy

cyanide at the foot of the bed

During the first forty eight hours after the operation a little morphine camphorated oil and adren alin are given by rectum. The drain is removed on the second or third day

The end results of this operation have been excellent and will be published later PACE

Hedblom C A Anterolateral Costectomy for In adequate Collapse Following Posterior Extra pleural Thoracoplasty Arch St g 930 x 1 1t 2 1114

Pulmonary collapse or compression offers hope of curing patients with pulmonary tuberculosis who are not benefited by sanatorium treatment as it places the diseased lung at rest It is never so complete after posterior extrapleural thoracoplasty as in complete pneumothorax. Many failures of posterior extrapleural thoracoplasty to effect a cure are due to inadequacy of the collapse. Incomplete collapse may be due to inflammatory stiffening of the lung or chest wall or the regeneration of ribs.

Anterolateral costectomy following posterior thoracoplasty consists of subperiosteal resection of the remaining rib segments. The indications for this operation are persistent or recurrent symptoms referable to an incompletely collapsed lung or to

unobliterated pulmonary or pleural cavities The operation completely compresses or obliterates the cavities of the lungs and pleure or reduces them to minimal size. It is not difficult and is relatively well tolerated. By making possible an adequate degree of collapse in multiple stages at relatively long intervals it extends the indications for pulmonary collapse to patients whose condition is too poor for a two stage or three stage operation. It is the logical follow through method for cases in which the compression produced by anterior thoracoplasts, is

inadequate

The author reports twenty six cases in which
anterolateral costectomy was done There was one
death from sepsis and one from hemorrhage. In all
of these cases maximal pulmonary compression was
obtained.

J DANKEL MYLLEM M D

McCrae T Bronchial Neoplasms Clinical Fea tures Arch Ololaryngol 930 x11 727

McCrae reviews sixty one proved cases of bron chial neoplasm. He states that the clinical feetures of such tumors are not characteristic. The most prominent symptom are cough pain and hamo physis. In the diagnosis early bronchoscopic examination is important.

NYTHEN N. CROIM M. D.

Jackson C Malignant Growths of the Lung Bronchoscopic Diagnosis 1 ch Otol rangol 1930 til 747

The diagnosis of primarily endobronchial new growths can be made early by bronchoscopic blops. In cancer of the parenchyma of the lung in which the bronchus is not invaded until late a positive diag nosis by bronchoscopy cannot be made early. How ever cases of cancer of the parenchyma of the lung constitute only a relatively small group

Jackson reports six cases in which an endobron chialsarcoma was discovered by bronchoscopic biopsy

Diagnostic bronchoscopy should not be done until a serological test has been made and if this test as positive not until adequite antil sphils treatment has been given The association of syphils and malignancy of the lung is tare Pulmonary tuherculosis is not a contra indication to bronchoscopy

In a few cases bronchoscopic removal of an in cipient malignant growth has been accomplished without recurrence NATHAN N CROHN M D

Funk E H Clinical Manifestations of Primary Bronchial Carcinoma J im M iss 1930 cv 1879

From an analysis of sixty one cases of primary carcinoma of the bronchus I unk concludes that the chinical picture varies greatly depending on the location of the neoplasm and the ripidity of its growth the degree of bronchial obstruction produced the presence or absence of secondary in fection and suppuration the pressure exerted on adjacent structures the occurrence of pleural in volument and the influence of local and general metistases. The onset of the symptoms is usually in

sidious The most frequent symptoms are cough expectoration chest pain hamoptysis and dyspinara Samyer Perloy M D

Lillenti al II G ant Sarcoma of the Pleura A Repo t of Tvo Cases viti Remark on Opera tiv Exploration of the Thorax A 1 S g

The author states that giant sarcoma of the pleura or more accurately of the subpleural tissues is extremely rare and the diagno is is usually first made

at autopsy

Subpleural connective ti sue tumors seem to be of the lungs which usually are benign and tumors which go will gain the clear and tumors which go will gain the cropert one sometimes filling the clear and causing death from circulatory disturbances de to the rbulk. The large tumors usually originate beneath the costal pleura and rarely if ever p oduce metastases in spite of their h stological sarromatous appearance.

In the first case reported by the author that of a woman forty eight years of ge the tumor originated on the voer 1s de of the pleura. It vas nodular and presented the microscopic appearance of a fluorist coma or fib omay the comparative ly few tumor cells. Adhesions to the surrounding structures were

present

In the author's second case that of a man forty is everated age the exact origin of the tumor could not be proved. The d aphragm and percardium were firmly alternt. Three unsuccessful attempts were made to remo e the nesplasm by operation. At the first operation the patholog cal diagnosis of the tissue excised was fibroma or possibly fibrosar coma of a low grade of malignancy will reast in the first operation it was soft portions polymorphous cell as coma with necrosis firm portions hard in form. The neoplasm chinged in both its clinical and histological challed a citer and ultimately produced a metistates in the otler long.

In con lusion the author says when a symptomics mass in the chest is discovered incidentally on rou tine oentgen examination immediate intervent on is not necessary even for accuracy of dignoss but repeat d observations should be made and if any in crease in the size of the neoplasm is noted or any symptoms develop a full 1 estigation including if necessary exploratory operation is indicated. In such cases of the operation may reveal in essentially innocent and removable growth which if left to it self would increase in size and become boorless.

#### **ESOPHAGUS AND MEDIASTINUM**

Brown S and Rein cke H G Tie Roe tgen 1 gic 1 Study of th Superi r and Posteri r Med astinum A J S g 193 45

The authors state that no study of the superior an I posterior mediastinum is complete unless both anteroposterior and lateral roentgenograms are made. The lateral roentgenogram often yields more valuable information than the anteroposterior roent genogram. In the latter several dense structures such as the sternum spine heart and great blood vessels are supe imposed and more or less obscure the soft structures of the mediastinum. A true lateral view is of greater and than an oblique view.

The structures discusse I in greatest detail by the nuthors are the trachen cesophagus and aorta Since their position as shown in the anteroposterior vie v is familiar the authors describe the fly devia tions in their position as revealed by the lateral view The r normal and abnormal relationships are shown in numerous roentgenograms. Such pathological conditions as ecsophageal d erticula retrotracheal goster and tumors lilatations and tumors of the esophagus fi tulous communications between the trachea and ecsophagus and ancurism of the ao ta may produce distortions of the trache I shadow in the lateral vies a hich yield valuable information as to the nature location and extent of the lesion. The lateral projection of the barrum filled exophagus may disclose important f nding a relative to such con ditions as enlarged tracheal glands cardiac lesions diaphragmatic hernia perforation into the med as tinal ti sues and esophageal strictures deformit es and diverticula. Abnormalities of the aorta not apparent in the anteroposterior view may be apparent in the lateral view. The demonstration of enlarged glands or tumors in the posterior med astinum i greatly facilitated by the lateral view Occasionally the I teral view di closes the e act nature of a lesion eausing abnormal shadows in the region of the pos terior mediastinum such as a spinal abscess

ADOLPH HARTE

Paneoa t H k Roentgenology of th Tlym s in Infancy and the Diffe ntial D agnosis of Enlarged Thymus and It Treatment im J if S 93 cl 74

The author states that the thymic menace in infants and young children is largely a matter of tracheal stenoiss with relaxation of the soft issues of the upper respiratory tract. A most serious complication i paralysis of the recurrent laryngeal nerves.

In the past the ingnoses of thymic enlargement was based largely on erroneous rontigenolog calculence. The only definite and reliable signs if an enlarged or potentially dangerous gland are almormal nearrowing or buckling of the trache at the thortice rulet as it passes over the apec of the gland v buch is show n only in the lateral vie of it echest and lateral dev at on of the taches which is shown in the sagittal view. Unusual with of the gland shudow is of no ha treular sign ficance. A gland producing a narrow shadow i likely to be inherently more dangerous than a vide once as sevident from the sagittal orent generation.

The naturally preponderant gland of 1 fancy may be blumed for obstructive phenomena for high it is in no way responsible. The e am ner must ad pt a roentgenological techn que which will en able him to detect any other form of obstruction of the upper respiratory tract which may be demonstrated with the N ray such as foreign bodies the effects of obstructive specific laryngeal infections on the lumen of the larynx postdiphthentic and other forms of acquired or congenital stenosis retropharyngeal and retrotracheal absects adenoids at lectasis and unusual collapse of soft tissues. He must hear in mind certain conditions which may confuse the diagnosis such as asthma whooping cough meningitis and congenital heart lesions. When the symptoms persist after apparently adequate reduction of the size of the gland the complication of paralysis of the recurrent laryngeal nerves must be considered.

Roentgenological studies of the respiratory organs of infants and young children should always include the chest neck and nasopharynx Sagittal and lateral views must always be made during both phases of respiration and preferably with the child in the erect position The author describes the

technique in detail

Baer M

The treatment of enlarged thymus deals with a lymphatic structure which is extremely sensitive to irradiation. Therefore the dose applied should he no larger than is absolutely necessary to reduce the gland to a safe size It will depend upon the age and size of the child and the thickness of the chest wall In the cases of very young infants the author uses from one tenth to one fourth of a mild skin erythema dose with the following factors 130 kv a filter of 5 mm of aluminum and a skin target distance of of in Only the thymic area is exposed In the cases of children from four months to a year old he gives from one third to one half of an erythema dose depending on the age and the size of the child The treatment is always preceded hy a thorough examination of the neck and chest When the symptoms persist after the first treat ment a second application is given after a neel or ten days Further treatment may be necessary hut the average number of applications in cases without recurrence is two Recurrences are to be expected in a fairly large percentage of cases LEO M DAVIDOFF M D

The Recognition of Cancers of the

Thymus (Zur Kenntnis der Thymusk ebs)
Schu i med II ch s /r 1930 1 732

The first case reported was that of a man srtty nine years old whose symptoms began about six months previous to his admission to the hospital with slight swelling and painful tension in the face and both arms. Later there was difficulty in breathing associated with coughing a little expectionation and sticking pains in the chest. There was no fever swelling of the lymph glands or widema but a slight polynuclear leucocy tosis was found. Tventually hemorrhagic pleurisy developed on the right side with mixtured symptoms of stasis and the development of venous collaterals in the face chest and back. A diagnosis of intrathoracte tumor was made

but roentgenography for intrathoracic tumor was negative. Death occurred fourteen days after the patient's admission to the hospital. Autopsy dis closed a lurge mediastinal tumor which compressed the upper portion of the vena cava and had formed metastases in the liver pleura and pericardium Other findings were hydrothorax on the right side and hydropericardium. Histological examination proved the tumor to be a large celled solid simple carcinoma with wide reticulated bands of large polyhedral cells showing numerous mitoses. Cer tain treas of the central region presented beginning hornification and necroses. There were no Hassal corpuscles.

The second case was that of a man thirty four years old whose illness began six months previously with node formation on the neck and severe pain in all parts of the body. Treatment for rheumatism had been without effect. The patient lost strength and hecame emaciated On physical examination the upper air passages were found normal hut indolent masses of lympb nodes were discovered on both sides of the neck and in the left supraclavicular fossa The thoracic and abdominal organs and the Wassermann reaction were negative Examination of the blood revealed anæmia with a few toxic forms of leucocytes and a slight leucocytosis Roentgen ography disclosed marked widening and shadow ing of the entire mediastinum (Esophagoscopy was negative Bronchoscopy revealed marked constric tion and rigidity of the bronchial branches bronchial mucosa was normal A hiopsy specimen from the cervical lymph nodes showed carcinoma Lead treatment resulted in rapid aggravation of the condition Death resulted after increasing dyspncea which usually occurred in attacks

Autopsy revealed a large tumor in the anterior mediastinum with metastases in the mediastinal bronchial supraclavicular retroperitoneal and mesenteric lymph nodes and in the pleura period dum spine liver and dura. Histological examina tion showed the tumor to be a small celled simple solid carcinoma with quite broad strands. Toward the center of the neoplasm there were hornified and necrotic areas and fatty stratified spheres similar to Hassal's corpuscles were found also in the metastases in the pleura dura and

Titty four definitely proved cases of cancer of the thymus have been reported in the European and American literature up to the present time. The tumor occurs most frequently in males of middle or advanced age. It develops in the anterior medi astinum and in form simulates the infantle thymus. In one third of the cases it metastasizes outside of the thoracic cage. Hassal's corpuscles occur especially in the large celled carcinomata. Their occur rence in the metastases shows that the tumor tissue itself has the power to form them and that such corpuscles occurring in the primary tumors are not necessarily rests from the normal thy mus tissue.

TOBLER (Z)

#### MISCELLANEOUS

Davison T C Intrati oracic Tumors Repo t of C ses A 1 S g 930 Pt 2 1303

Following a brief discussion of the types etiology symptoms d agnosis and treatment of intrathoracie tumors Davison reports ffteen cases

The first case was that of a man twenty years of age who ded without operation sixteen hours after his admission to the hospital Autopsy showed a

lymphosarcoma of the thymus gland with b lateral bronchopneumon a

In Case 2 that of a voman fftv three years of age a diagnosis of my to angio endothelioma evi dently arising from the pleura was made on the basis of a part of a cyst vall. The patient is still under observation

Case 3 was that of a man aged sixty years who as suffe ing from a lung abscess Drainage of the abscess was followed by death three days later Autopsy disclosed primary earcinoma of the lung

The fourth patient was a woman sixty six years of age who had a 4+ Wassermann reaction which failed to show improvement under treatment. A roentgenogram of the chest disclosed a mass which is thought to be a primary mediastinal cost and is becoming larger

In Case 5 that of a man fifty three years of age ho is still under observation a probable diagnosis of dermo d eyst of the med astinum has been made

In Case 6 that of a woman fits one years old a probable d agnosis of benign cyst of the left lung as made. The patient died but autopsy was not obtained

The se enth pat ent vas a girl eleven years of age with a pr bable diagnosis of ben gn east of the med astinum. The pat ent is still under observa-

t on Case 8 as that of a three year old boy with a probable diagnosi of sarcoma of the right kidney which had formed metastases in both lungs Coffey Humbe serum t eatm nt and \ ray i radiation had been unsucc ful at the t me of this report

In Case 9 that of a oman thirty eight years of age autopsy disclosed a carcinoma of the cerus

with metast s to the lung

In Case o that of a oman about twenty seven of age a biopsy diagnosis of endothel oma of lymph nodes n the neck with metastasis to the lung was made The fn l esult is unknown

that of a man se enty years of age a biopsy d ag osi of Hodgkin's d case with extension to the tho ax m de De th occurred following acute d

as th t fa man 1th a biopsy diagnosis of Hodgkin's sare ma with metastasis t both lungs The d agnosis \ s confirmed at autopsy

Case 13 was that of a voman sixty n e years of age who died of a malign nt melanoma of the face with metast es to both lungs the h er and the spleen. The clinical diagnosis was confirmed by autopsy

The fourteenth patient was a woman forty three years of age , ho died of a recurrent carcinoma of the left breast 1th direct extension to the pleura and possibly also to the base of the left lung Perm ssion for autopsy vas not obtained

The fiteenth case was that of a man forty fve years oll who ded of a teratoid tumor of the right testiele with carcinomatous metastasis throughout the lungs The el nical diagnosi was confirmed at

The author draws the follo ing conclus ons Intrathoracic tumors both the benign and the malignant are more common than was formerly sup-Benign tumors of the med astinum and lungs fre

quently produce atelectasis and bronchiectasis by

I rimary carcinoma of the lung and pulmonary

tuberculo is may eo exist in the same nationt Abscess and primary carcinoma of the lung often co-e ist and it is impossible to tell which is the

cause and which the effect Benign tumors of the chest should be removed

surgically when they are accessible Roentgen therapy offers only palliative results i

cases of malignant intrathoracic neoplasms In the treatment of intrathoracic neoplasms there

should be closer to peration between the internist and the surgeon

In the discussion of this report HEDBLOM stated that bronehose py is the most direct and the surest method of establishing the presence of a bron chogenic tumor but not infrequently the diagnosis may be made by bionsy on a hard cervical or other superficial gland or a superferal tumor Occa sionally elumps of mal gnant cell may be isolated from the sputum or from aspirated pleural evudate A definite d stinct on must be made bet een pr mars and metastatic tumors of the lu g or the thoracic wall Hedblom said that in every e plora tory thoracotomy he has performed for bronchogen c earcinoma he has found the bilus to be infiltrated by the tumor Radium implants in such cases seemed to prolong life and relieve the symptoms Hedblom has drained abscesses seco da y to tumor of the lung ith marked pall ative results

Hupson stated that the spitting of blood m ; be an early sign of tumor of the lung and that the developmental period of lu g tumors is much longer

than was formerly supposed

LEWALD showed to sides demonstrating the diff culty in the diag ss of aneuri m from other tumors in contact with the norta hich seem to pulsate He cited t o cases of dermoid of the lung n which the neoplasm was spontaneously coughed up also a case successfully operated upon by Lil enthal lle sugge ted a series of rapidly made e posu es as an aid in the differentiation of ane ri m

from tumor LILIEVINI Said that s e do not look at the tumor merely on a plane The neoplasm is not merely pushed t the side by the heart it may be pushed

away from the observer. As it is pushed away from him it becomes larger in all dimensions and as it approaches him it becomes smaller in all dimensions thereby simulating expansile pulsation.

CARL R. STEINLE M D

Denk W The Surgery of Thoracte and Intra thoracic Tumors (Beitrag zur Chrurgie der thorakalen und intrathorakalen Tumoren) Arch f klin Chr 2930 clx 254

Nineteen cases of tumorous disease of the thorax and thoracic organs some unusual are reported The tumors of the hony wall of the thorax included an exostosis of a rib the size of a child's fist and a chondroma the size of a child's head which were removed successfully and a recurrent sarcoma of the tenth rib the size of a fist which was prevented from giving rise to lung metastases for the space of three years by removal and postoperative irradiation. A forty five year old woman died of pulmonary em bolism six days after operation for chondrosarcoma of the apex of the thorax the size of a child s head Resection of the thoracic wall for recurrent carci noma of the breast was performed in three cases in one a cure of more than seventeen years duration was obtained A cyst of the lung the size of an apple which directly adjoined the pericardium and was shelled out bluntly could not be adequately explained even on microscopic examination. Especially noteworth, was the absence of an endothelial lining

In the operative treatment of pulmonary echinococcus there seems to be a certuin tendency against a too radical standpoint and in favor of leaving especially the centrally situated cysts to themselves. In a case in which the author removed a cyst the size of a child's head from the right lung the patient died during convalescence from the operation from a suddenly appearing necrotic focus in the left lung. The cysts may be removed only in the presence of pleural

Three cases of primary sarcoma of the lung which is very rare were observed by the author. In two the tumor could be removed but in one the operation had to be stopped soon after it was begun. The peculiar malignancy of these tumors is emphasized Even when removal appeared to he radical there was early recurrence. Roenigen irradiation was always without result.

In the diagnosis of pulmonary carcinoma hron choscopic examination can give valuable aid when the carcinoma is in a bronchus. In one of three cases reviewed it permitted a diagnosis hefore operation. In the two others operation was done for supposed abscess. Surgeons of the Sauerbruch climic have called attention to the possibility of such a diagnostic error. Hippocratic fingers do not help in the differential diagnosis as they are seen in both carcinoma and sarcoma of the lung. In two of the cases reviewed operation was followed by temporary improvement.

For dermoids of the mediastinal cavity early operation is recommended to prevent later complications. In a case cited a tensely elastic tumor the size of a child's fist was easily removed.

In discussing neuroma of the sympathetic the author reports a case in which the tumor weighed 1 700 gm. This is the largest that has yet been extirpated with success.

Also reported is a case of carcinoma of the thy mus the size of a child s head in which operation was not successful

Mention is made of the frequent occurrence of cosmophila (up to ro per cent) in cases of intra thoracic tumors and of the mildness of the symptoms that such tumors cause over a long period of time when they are benign A Brunner (Z)

## SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Patch F S and Ble C L Granuloma Ingui nal Its Pre ence in C nada C 14 If 1 J 050 x 637

On the base of four cases of granuloma anguinals coming in der observation in one climic in Montreal the authors call attention to the possibility of the introduction of such trop call or subtrop real diseases into Canada In three of the easy acted the disease was contracted in the tropics. In one it was of local or gia. Whitzit V 51 exiting M D

Kirchin fi II Pnc; mococcus I etit nitis (Pneu m k kk np r t nits) ? t ili f Ch 1930 p

Kirchhoff discusses the symptomatology and therapy of pneumococus penionitis on the basis of the t nty nine ca es which came under observation in the Kiel Clinic during the period from 1911 to 1020

He states that in the female the genitalia are the portal of entry of the infect on more frequently than is generally saumed. Ulof the patients v hose cases are revite'e' vere females. It entry six of them, ere under fourteen years of age cleven were seen v ars old and the youngest as three years old Of the text unine patients tuckle (4:3 per cent) ded Of these 52 3 per cent had been operated upon in emergency and 12 5 per cent died foll wing an peratin hel had been delayed to await the valling off of the abscess.

The disease picture was nearly Iways character ized by a st my beginning with severe pains throughout the abdomen \s a tule the ab lominal walls ere n t of a ooden ha dness but rather of n el sue bard ess which gav to pressure. The form of the abdomen as r und lke a balloon Tenderness to pre ure as diffuse but frequently the most acutely tender spot was located in the regi n of the ppendix (in nine cases) The leucocyte count vas generally h gher than that of ar pen heitis In two instances there vas a neutroph ha of ; per cent. Of the f ur pat ents seen by the author himself three had a ulvitis (in one instance pneumococci were demonstrated in the smear from the vulva) Hernes ani ea e i in about half the cases but as a rule it de el pe i late The pneumococcus was found in the blood at an ea ly stage of the diseas

Explorat ry pa acentesis is a determinat e di agnostic me sure who al a 35 discloses the piner morcoccus in cultu es and frequently in the smears. When the diagn sis is certain it is better to vait even in very se ere cases until the bscess has be come encapsulated in order that it may be drained.

through a small puncture wound (incision and drain age from the pouch of Douglas)

JASTRAM (Z)

Pribram B O Mesente le Lymphang tis se an Abdombal Foce of Infect of a Substrate of Lection at Abde of Infect of a Substrate of Lection at Abde of Infect of the Substrate of Conference of the Conference of the Lymphang to meente als all abdom it like if it Substrate of Deption lend the could be deption the Abde of the Substrate of Subs

Attention is first ealled by the author to the fact that a hereas after operation for acute appendicit's permanent freedom from symptom can be expected in the large majority of the cases this is not true after operation for chronic appendicitis Pr bram found sum far results in a follow up of his patients operated upon for gall bladder di ease. To expla n them he cites his stud es on mesenterie ly mphang t's -chronic inflammation which causes the Is mor atics to become adherent to the serosal leaves and leads to scar formation with a tendency toward shrinkage This lymphangitis and lymphadenitis extend in the mesentene f kls and may become a sever storms inflammatory process gi ing rise to generalized peritoritis. I rom his obser ations the author ron cludes that through a portal of entry (frequently the appendix) which may e hibit only a mid local reaction or lose its character as a focus of infection the infection extends into the lymphatics of the After removal of the portal of entry mesentery while it still retains the character of a focus of in fection the condition may clear up athout leaving any changes I ut in some cases it may assume the character of an insi i ous di ease entity i hi h tends to become latent and runs a variable course. This lymphangitis and lymphadenitis of the per tone m is much more common than I as formerly belie ed and is a cause fundefinite ab form nal symptoms

The bdom hal portals of entry are ery fre quently the lymphatics of the append c and the ileocacal reg on The seventy of the nall infection is no in lex of the infection of the hamply vessel of the mesentery In fact there seems rat1 er to be a del nite contrast bet een the wall infect on and the extension in the lymphatic system. It i very probable that peritoneal adhesions as a dis ase entity have as ther bas a chronic sul cross lymphangitis as do sent in the region of the mesenter e fol is and ntestinal adhesio s p rticu la ly th se associated with pericholecustit's and periduo lemitis. A long serie of recurrent or re idual symptoms after the remo I of a primary inflam matory focus seems to ha e the rouge in such a condition To these so called secondary d cases pancreatitis belongs

patiere terra belong

The tendency toward recurrent disturbances can be corrected only by the earliest possible removal of a demonstrated primary focus This may be found in the appendix the gall bladder or elsewhere Operations performed during acute attacks have given the author better results than operations per formed between attacks IANSSEY (Z)

#### GASTRO INTESTINAL TRACT

Mulignant Tumors of the Di gestive Tract (Ueber de boe artigen Geschwuel ste des Verdauungstraktes) Dei tsche Ztsclr f Chir 1030 CCXXV 145

The author reviews the results obtained in a o62 cases of carcinoma of the digestive tract which were treated during the period from 1901 to 1925

Of 445 malignant tumors of the mouth 313 were operated upon radically Forty seven of the patients operated upon radically lived more than five years after the operation Two of them developed a re currence after six and ten years respectively

Of 172 tumors of the tongue 127 were operated upon radically and of the patients subjected to radical operation 21 lived more than five years

Of 132 cases of carcinoma of the œsopbagus a radical operation was performed in 4 but was un

successful in all

The author discusses the cases of carcinoma of the stomach in somewhat greater detail Of 1 567 cases treated in the period from 1901 to 1928 1 5 2 were operated upon The primary mortality of exploratory laparotomy in 305 cases was 13 9 per cent Of 7 patients who survived the operation for from several to fifteen years only I had a proved diagnosis In the case of this patient a laparotomy was performed in 1917 for carcinoma of the pars media and cardiaca with metastases in the great omentum In 1028 the patient was in good condition and complained only of occasional constipation Of 116 patients who were treated by jejunostomy 49 (42 2 per cent) died after the operation Only I survived longer than a year In 472 cases in which posterior gastro enterostomy was done the opera tive mortality was 14 4 per cent Seventeen of the patients survived the operation more than five years hut histological proof of the diagnosis was lacking In 518 cases in which a radical operation was done the primary mortality was 183 per cent Sixty five (17 per cent) of the patients survived the opera tion for more than five years

Of 27 patients with tumors of the small intestine (carcinoma leiomyoma myosarcoma lymphosar coma) 5 (18 per cent) survived operation for more

than five years

Two hundred and eighty seven cases of carcinoma of the large intestine were treated Of 48 patients who were treated by entero anastomosis 4 survived longer than five years Of 142 patients who were operated upon radically 94 were treated by resec tion and 48 by exteriorization. Of the former 24 (25 5 per cent) and of the latter 13 (27 per cent) survived for more than five years Of 477 cases of carcinoma of the rectum 334 (,o per cent) were treated radically and 133 (30 per cent) by colostomy or exploratory laparotomy Of the 334 radical operations 133 were resections and 193 were am putations Of the patients treated by resection 26 (18 7 per cent) survived for more than five years and of those treated by amputation 32 (16 5 per cent) were still alive after five years

Of the total number of 3 062 cases a cure lasting more than five years was obtained in 234 (7 6 per

WANKE (Z)

Boston L N Gastric Hæmorrhage Due to Famil ial Telangiectasis to J W Sc 1930 clyxy

In a review of the literature the author found the reports of five cases of recurrent bleeding from the alimentary tract accompanied by cutaneous telangi ectasis Three were cases of rectal bleeding one was a case of oral bleeding and one was a case of hamat emesis Boston adds three cases of recurrent gastric and rectal hamorrhage associated with cutaneous telanguectasis All of his patients gave a family his tory of recurrent bleeding from mucous surfaces and stated that they bad bad their symptoms since early life One of them was operated upon When the stomach was opened two nævi were diagnosed by the surgeon One died from a gastric hæmorrbage and at autopsy three small scars surrounded by highly vascular tissue were found in the stomach wall The records of these two cases do not indicate that a histological examination was made. The pa tient with hamatemesis had recurrent attacks of gastric distress which were relieved only by the tak ing of food No gastric studies are included in the records of this case

The author concludes that familial telangiectasis is the cause of a definite type of hamorrhage from mucous surfaces It appears that this tendency does not shorten life as all of his patients lived to be EARL O LATTMER M D over fifty years old

De Toni G Gastroduodenal Ulcers in Children (Sull ulcera gastroduodenale nel bambino) ital di ch r 1930 xtv 703

The author says that so called secondary ulcers are relatively frequent and primary ulcers are very rare in children. In the literature he has been able to find the reports of only forty cases of primary ul cer in children under twelve years of age. To these he adds the case of a child ten years of age. In the latter the syndrome developed suddenly and the author made a diagnosis of gastric ulcer Severe hæmorrhage was followed by death at the end of two Autopsy revealed an ulcer on the posterior wall of the stomach near the greater curvature His tological examination showed the lesion to be recent

In conclusion the author says that as gastroduo denal ulcer usually has a very rapid course in chil dren operation is indicated whenever such a lesion is suspected in a child Marin J Di Cola M D

Jarot sky A Ti e Dictetic Treatment of Pentic Ulcer of tie Stomacl and Duodenum During It Acute Stage (Zu diaetet chen B h ndlu gd s rndn (e h rsd s Mag n undd D od nums a l end se ne akut P ode) Sad 193 Sump at

The author maintains that if the find nes of Pa v lo v and his school on the physiology of the digestive tract are applied to the treatment of gastric and duo denal ulcer it is possible to place the stomach at rest while nourishing the pat ent by the oral route and to reduce the acidity of the gastric contents and in crease the tonicity of the pto ed stomach entirely by means of diet. He descr bes his dietetic treatment of peptic ulcer which he elaborated on the basis of Pay low s teachings and states that it has been used for a number of year in Russia and ele bere with excellent results

The diet usually pre cribed for cases of peptic ulcer 1 that of Leube or that of Lenhartz The pur pose of the Leube diet which consi ts of milk given in increasing quantities is to protect the inflamed mucosa Ho ever milk is digested chiefly in the stomach because its prine pal protein component casein is co gulated an I precip tated in the stomach and because its content of fat and protein and its stimulating effect on gastric secret on tend to close

the pylorus

The purpose f the Lenhartz diet which consists of beaten aw eggs and chonned raw meat is to give the patient adequate nourishment and increase his healing o vers and by the admini tration of protein to neutralize the gastric acidity Honever the egg olk and meat tend to induce closure of the pylorus with consequent retent on of the food in the stomach and greatly stimulates gastric secretion

Therefore both of the accepted methods of treat ing peptic ulcer are plays ologically acorrect

It eauthor believes that in case of hypersecretion or peptic ulcer mixtures of fat an I anim I protein are contra ndicated Panlo i s school showed that whereas fat alone or with carbohydrate tends to d mini h gastr c secret on and to facilitate emptying of the stomach mixtures of tat and prote n have just the oppos te effect. Therefore milk cream hole eggs and fat meat are entirely unsuited for tle treatment of peptic ulcer When fat and protein are given they should be given separately several hours apart Tobacco and all foods which increase gastric secreti n such as bouillons spices coffee and tea must be forbidden and factors tending to increase p vch c secretion must be elim nated

In the acute stages of pentic ulcer with threatened perforation or after hæmorrhage the diet recom mended by the author consists of rat unbeaten egg white and fresh unsalted butter There is no preliminary period of starvation. On the first day the patient eccives the raw wh te of one egg in the morning and 20 gm of fresh unsaited creamery but ter at 3 o clock in the afternoon On each succe sive day the intake is increased by the addition of the white of one egg and 20 gm of butter This is con

tinued for from e ght to ten days No other food no salt and no water is given. Salt and water are withheld because they increase gastric secretion The monotons and unpalatab hty of the diet are considered advantageous as they decrease the nsychic secretion to drug no retention enema and no proctoclysis or hypodermoclysis is given On this e gime the pain belching hearthurn and vomiting stop very quickly and the distention of the upper abdomen disar pears

After the first ten days and in cases thich are seen during a subacute stage a butter veretable det The foods are prepared without salt is given Milk bouillon tobacco alcohol coffee spices and sauces are prohibited As chewing is an important factor in psychic secretion all foods are house or semiliquid They consist of thin cereals or thick soups made with oats rice or barley and pur es of potatoes carrots cabbage or other vegetables t hich are cooked in water t ithout salt and to which butter is added They may be sweetened with sug r or fruit juices Butter is given freely either alo e or with the cereals or vegetable. As a rule about 200 em are taken daily

Ifter approx mately three seeks the diet ; in creased by the a ldition of chopped meat if there are a cutlet once a day The eutlet is made of lean chopped beef eal or chicken mixed with a little white bread and roasted with butter to salt sauce or spice is used As a rule the cutlet s gi en at luncheon and at that meal the patient re enes

Under the management the acid ty is controlled the subjective manife tations disappear and hamor thage an f perforation are prevented Su gery 1 indicated only in cases of free perforation threaten ing hamorrhage or mechanical occlusion of the bylorus When mechanical occlusion a due to spasm proper diet will make operation unnecessary

LED M TIMME MIN MD

Tie Mortality and Late Results of Berg A A Subtotal Gastrectomy for the Radical Cure 1
Ga tric and Duodenal Ulcer A S 8 93

Ulcer of the stomach is the same disease as ulcer of the duodenum and re ponds to tile same methods of tre tment. In the chronic stage it can be cured only by surgery

Three important factors concerne I in the fo ma tion of a g stric or duodenal ulcer are specific a cer gastritis free hydrochloric acid in the stomach an! secondary infect on in the stomach r duode um

In chronic ule r gastritis the symptoms are similar t those of ulcer but at operation n ulcer is found. In its early stage, this cond tion can be cured by proper med cal treatment. When an ulcer is fully developed medical treatment may I feviate the symptoms but is rarely curat ve

Up to 1920 Berg treated gastric and duodenal by the usual surgical methods-gastro enterestoms

ulcer excision cautery puncture and pyloroplasty In the follow up of patients so treated he found that only about 50 per cent were cured and that 30 per cent had developed ulcers at the gastro enteric stoma or a recurrence at the site of the original These findings were similar to those of a number of Continental surgeons Accordingly an operation which would remove the factors respon sible for the ulcer was sought Subtotal or partial gastrectomy was found to meet the requirements This operation consists in the removal of the antrum and part of the body of the stomach together with the pylorus and the affected part of the duodenum followed by re establishment of the connection be tween the stomach and duodenum or jejunum After a trial of various techniques a uniform procedure was adopted which has been used since 1023 with routinely good results

The operation is begun with higation of the car diac artery The desired portion of stomach and duodenum is then removed and a gastrojejunal anastomosis is established according to the method of Hofmeister In the mobilization of the duodenum great care must be taken to avoid entering the pancreatic capsule The formation of a bæmatoma around the head of the pancreas or duodenal stump must also be prevented. All raw areas must be carefully covered Care in the closure of the duo denal stump is necessary to prevent duodenal fistula If the transverse mesocolon is separated from the posterior wall of the stomach before clamps are applied the danger of injuring the middle colic artery is eliminated Hamorrhage from the cut end of the stomach can be prevented only by grasping and tying each blood vessel in the wall of the stomach separately

In the period from 1923 to 19 9 405 primary subtotal gastrectomes were done with a mortality of 79 per cent (32 deaths) If 4 deaths due to causes not related to the operation are excluded the mortal

it) was 6 9 per cent

In comparing the results of primary subtotal gastrectomy with those of gastro enterostomy the author cites statistics showing that gastro enteros tomy had a mortality as high as or bugher than that of subtotal gastrectomy and was followed much more frequently by recurrence of symptoms and gastrojejunal ulcer

In 105 secondary subtotal gastrectomies reviewed by the author the mortality was 20 9 per cent In a total of 516 cases in which a primary or secondary subtotal gastrectomy was done the in

cidence of recurrence was only 1 1 per cent

From two tables of cases treated medically the author concludes that after medical treatment alisating cure is rare and the ultimate mortality is considerably higher than in surgically treated cases

In the discussion of this report SANTEE etted og cases of gastric and duodenal ulcer in which primary gastric resection was performed in the Cornell Division of Bellevue Hospital New York. The mortality was 14,5 per cent In 202 cases in which gastro enterostomy was done by the same group of surgeons the mortality was 29 per cent and satisfactory results were obtained in 85 per cent. The incidence of recurrence did not exceed 5 per cent.

DOUGLAS reported that in 135 cases treated by gastro enterostomy at St Luke s Hospital New York the mortality was 20 per cent Of 63 cases which were followed up after a period of five years

good results were found in 80 per cent

ERDMAN reported that at the New York Hospital the mortality of partial gastrectomy was much bigher than that reported by Berg In support of gastro enterostomy he cited among others the statistics of Finney and Moynihan Finney reported that m 234 cases of duodenal ulcer treated by pyloroplasty or gastro enterostomy a cure or im provement was obtained in 90 per cent and the incidence of marginal and jejunal ulcers after gastro enterostomy does not exceed 5 per cent Moynihan reported that in his cases treated by gastro enteros tomy the mortality was I per cent whereas he found the mortality of gastric resection to range from 5 to ro per cent Erdman called attention to the fact that partial gastrectomy does not always produce anacidity and that in 17 per cent of cases of duo denal ulcer treated by this procedure on Berg's service persistent hyperacidity was found after the operation I EOWARD BISHLOW M D

Haberer H von Reflections on Our Fallures in Gastric and Duodenal Ulcer (Betrachtungen ueber unse er Misserfolge wegen Magen und Duo denalgeschwaeten) Zentralbi f Chir 930 p 2309

The author discusses the causes of failure of re section for gastric and duodenal ulcer Sometimes failure is due to faulty too extensive resection. It is most frequent after resection for gastritis includ ing ulcerous gastritis Resection fails also when it is done on the basis of an erroneous diagnosis Failure when the operation was definitely indicated may be due to inadequately extensive resection Both the pylorus and the antrum must be removed Moreover as long standing callous ulcer of the stomach or duodenum is usually complicated by catarrhal changes in the mucosa dietetic after treatment should be given for at least nine months The author considers these changes amenable to treatment and bas found that in cases in which they are present the results of resection become better with the lanse of time

Technical considerations may constitute an important indication for resection. When a Billroth I anastomosis is too narrow it causes signs of stenosis and when the jegunal loop in a Billroth II operation is too long there is stasis. In some cases ulcers may be overlooked especially in the duodenum. The author's technique is described in detail.

Von Haherer states that in the cases of nervous patients re operation is inadvisable as the prognosis is worse with each operation. He reports a case

With regard to the indications for the operation von Haberer says that be objects to a time limit as

he has operated vith good results in cases in which the lesion was present for less than three years and in cases in which it had been present for more than

t venty years

In conclusion he revie is the incidence and type of recurrences after resection in his cases Of 2 310 cases an or eratively or roentgenologically demon strated ulcer recurred in only 15 (o 6 per cent) In all von Haberer has done 127 transverse resections 706 Billroth II resections r 276 Billroth I resections and 201 Billroth I resections vith end to side anas tomoses Among these the e were 121 radical opera tions for jejunal ulcer (Z) A LE

The author describes a gastroplasty which he has performed on dogs an I believes might be of special value in the treatment of certain penetrating ulcers located on the posterior surface of the lesser curva ture f the stomach

After applying our ed clamps around the part of the stomach to be perated up n he makes a horse shoe shaped incisi in through the serous and muscular coats of the ante for urface of the stomach. In order to spare the nerve a d bl od supply of the part of the stomach the 1 c sion 1 hegun and ended / in f om the lesser curvatu e Next a horseshoe shaped ncision is made in the m cosa in such a vay that a margin of mucous memb ane 1 left projecting be so d the serous and muscular coats. The flap of mucosa is then sutured to a similar flap raised from the posterior surface the ulcer area being thus shut off f om the stomach The mucosa and ulcer are then removed f om the exte iorize l are and after the original i c sion in the anterior surface of the stom. ach has been repaired the serous and muscular coats are sutured h ad su face to broad surface

The auth r has found the thy a slight modification of this tech iqu he i able to make a gastr c pouch for experiment I purposes and preserve the ner e surply t the pou h Hc proposes t do further re th the use f a g stric p uch so formed lul (va

The author discusses and rep rts illust ative cases of a testin local so pr duced by (r) acute ppen dicitis ( ) str ngulation of the intestine by the appends after ppendicts (3) the formation of hands and adhes one afte acute appendicates (4) the format on of adhesions and hands leading fr m the stump of the ppends to the sleum after appendec tomy and (5) peritonitis in the lower part of the abdomen after appe dectomy

Prat bel eves that intestinal occlus on from acute append cit's is closely rel ted to the treatment of appendicit's and especially to the surgical technique used in append ctomy and the treatment of peri tonitis. He has found that in many cases of in

testinal occlusion developing after removal of the appendix the appendectomy was done through a median incision. He states that a median inci ion is a poor inci ion in acute appendicitis as it necessi tates the laborious liberation of adhesions and dis engagement of the cocum ileum and append t to reach the operative field. Therefore it is advisable always to use the McBurney incision which leads directly to the appendix and permits appendectomy with minimal trauma separation of the tissues and exteriorization and consequently is less apt to favor the development of cellulitis and the generalization of perstonitis

Inother factor of importance in the prevention of postoperative intestinal occlusion is the establish ment of good drainage of the abdominal cavity with complete clo ure of the operati e wound around the drain to se establish intra abdominal pressure. Ad hesions are inevitable if the inci ions are left ope In the presence of peritonitis the append cular focus and the pelvis should be drained separately—the former through the McBurney and ion by a sm ll short drain which should be soon removed and the latter through a large suprapubic d ain

If intestinal occlusion develops in spite of the e precautions it must be recognized and treated early When the patient is able to withstand radical cir rect on of the occlu ion in one stage the operation should be performed under general anæsthesis and through a median subumbil cal inci ion. If the patient a resistance is poor it is best to make a simple f stula or an anus in an inte tinal loop r in the excum under local anasthesia and delay further in ter ention until the acute phase of the occlusion has passed and the general cond tion is impro ed When the intestine above the s te of the occlusion remains only slightly di tended by fluid and gas after liberation of the adhesi as and band and re estable hment of the intest nal circulation the opera

tion may be concluded by closing the abdomin I all around a drain. If the intestinal loops a c found greatly distended a ith fluid and g s when the abdomen is opened as is usually the case and the distention renders operative manipulations ery diff cult an enterotomy may be done and the intes tine evacuated directly or by aspiration. As a rule the surgeon 1 able t liberate the adhesions com pletely but as the intestine above the site of occlu sion is filled ith fluid and gas which might be absorbed in their passage through a normal segment of ileum the operation should be completed by an ileal Witzel enterostomy In c ses in hich it is apparent that liberation of all of the adhesions would be very difficult or impossible internal derivationan ileo ile stomy or ileocolostomy -may be do e

In France diverticulitis has received relatively little study probably because of its ranty The condition seems to he peculiar to the Figl h and Americans Of the authors 10 cases seven were those of American and English patients

Constipation is generally believed to be the chief causative factor but on account of the frequent presence of intestinal anomalies congenital causes may be more important

Diverticulosis may exist without producing the slightest symptom and may be recognized only in the course of a roentgenological study for other

conditions

When one or more diverticula become inflamed the symptoms are those of a limited colitis. A zone along the course of the colon for a variable extent is tender to palpation and because of the spasm the colon frequently feels like a section of hose. The patient often suffers from persistent constipation or from mucomembranous colitis.

When the inflammation is sufficiently intense to extend beyond the limit of the diverticulum the pain is more severe abdominal rigidity appears and there is fever. When the lesson affects the sigmoid the symptoms are those of a left sided appendicitis. Abscesses may form to continue this picture of appendicitis. The abscess may evacuate spon taneously into the intestine or the bladder.

When peticolic suppuration occurs the resulting adhesions are very dense. This is true particularly in the pelvis where the organs may be so firmly adherent that colostomy becomes necessary. When the lesson is in the terminal portion of the colon there may be no suppuration but simply a bloc of infiltration which is easily mistaken for a neoplasm. This error was made by the author in two cases. Urinary symptoms led to a diagnosis of neoplastic involvement of the bladder.

Occasionally an inflamed diverticulum ruptures directly into the general peritoneal cavity. This is believed to occur when the diverticulum contains

an impacted facalith

The author reports cases of the various types of diverticulosis and diverticultis described and sup plements the histories with the roentgenograms

Clinically these conditions may suggest spastic mucous or ulcerative colitis left sided appendicitis obstructive neoplasm abdominopelvic tumor or

peritonitis from visceral perforation

The final diagnosis must be made by roentgen examination. The proctoscope is of little value and may be dangerous. Unfortunately the X-ray can not reveal the diverticula unless the image happens to be caught in profile. However, if the examinations are repeated some time after the administration of the bruum enema or meal the diverticula will be revealed as opaque areas produced by barnum which has not been evacuated from the pouch. These shadows have been known to persist as long as sixteen days.

When the symptoms are those of stricture of the bowel atropine will relieve the obstruction and

rule out cancer

The treatment of mild diverticulitis is limited to the administration of atropine and gentle laxatives intestinal vaccination and the application of compresses to the abdomen

Surgical treatment during an attack of suppurative diverticultis consists of drainage of abscesses as in appendicitis or when the symptoms are those of cancer ileosigmoidostomy or colostomy. The author bas never had occasion to resect or in vaginate diverticula. Such operations can be performed only in the absence of active inflammation. ALBERT F DE GROAT MD

Rost Newer Knowledge of the Pathological Physiology of Heus and Its Value in Practical Therapy (Die neuen Erkenntnisse der pathologischer Physiolo ie des Heus und ihre Verwertung fuer die praktische Therape) Chirif 1930 i 692

That certain toxic products reach the blood from the bowel in ileus is not denied. There is disagree ment however as to the seventy of their toxic action Physicochemical examination of the blood in ileus reveals that the blood sugar may be slightly elevated but it may also be depressed. The find ings depend upon the type of animal used and the time that the examination is made. The residual nitrogen the protein content of the serum the viscosity the freezing point and the specific gravity rise primarily as a result of comiting cause for the increase in the residual nitrogen is a disturbance of kidney function and the increased protein destruction in this condition which is due to some toxic action. There is a fall in the chloride content of the blood which also is to be attributed primarily to the comiting. The theory that the sinking of the chloride level of the blood is an evidence of intoxication seems not to have been proved Studies of the acid base balance of the blood are almost always limited to determinations of the alkalı reserve Contrary to the rather general reports of an increased alkali reserve in ileus it must be remembered that the change is recorded in only about one half of the published protocols The vomiting is the chief cause but the reaction to the absorbed intestinal contents may be next in importance The changes in the alkali reserve have also been cited as evidence of intoxication from the bowel but without adequate basis

The toxicity of the intestinal contents in ileus has been studied in the past few years by attempts to isolate the toxic products. So far however very varied poisons have been found. Williams is in chined to regard death from ileus as the toxic effect of gas bacilly but has insufficient evidence to prove this theory More important advances bave been made by investigating the toxicity of animals ill with ileus Normal animals may be killed with the blood from the portal and mesenteric veins of animals with ileus The clinical course of experi mental ileus does not correspond closely with that of poisoning from intestinal contents Schoenbauer attempted to explain the failure of the liver to de toxicate the intestinal poisons in ileus by assuming that the toxins penetrate through to the pentoneum

and are there absorbed thus circum-enting the liver. The higher mortality in high ideas has been considered evidence of intestinal intovacation. However, the may be explained also by the saumit time that the duodenal junces are not resorbed and are lost to the metabols may Derithin lices is not to be regarded as the result of intovacation from the intestine alone it is probably due to the interaction of various factors such as the loss of secretion ion and water displacement nervous irritation and reflexes.

It is not necessary because of lear of intovication item the be of to make more tistule: an item tass a sometric customary. The formation of bigh stulies and resection of undaminged portions of inte tine a e equally unjustif of Ir creased intovication from the absorption of stagnart contents following the release of obstruction is undoubtedly exceptional. It operation the bowels should not be handled. Serum treatment and the use of large quantities Is dum enhorde (go gm in thirty six hours) are not fully de eloped for review but other vige infusion is greatly to be recommended.

K sr (7)

Ochsn r A Gage I M and Cutting R A
Tie value of Drugs in the R llef of lieus An
Fxperlm ntal Study 1 4 S 2 93 x1
It 9 4

The author report a comparate experimental study on red out on dogs with gard to the alu of various drugs which a c employed to stimulate the

intest ne n the treatment of ileus

Pituitrin produced a characterist e effect on the blood pressure which showed three phases (1) a transitory ine ease which was moderate (2) a subsequent depress on to a alue bel a normal and (a) a subsequent increase soon thereafter to a level much higher than the pre ous level. The effects of pituitrin on the gut of normal animals were ch eff a decrease in t ne a d inh bition of peristaltie mo ement. In 75 per eent of the animals the am tlitude f int stinal movement either rema ned as bef re the injection or decreased some hat. The a erage decrease was 3 6 mm. In 25 per cent of the anim is there i as an increase in the amphitude of intestinal m ement averaging 5 mm n ne animals with obstruction noticeable decreases in intest nal tone followed the injection of the extract. In f ur animals the a grage lecrease in tone was 9 2 mm The t o other animals sho ved un measured decreases. Only one animal showed an increase in tone

Physostigmi e aused an occase in the blood pressure and in the tone of the meetine in all of the an amale except one. In the one exception there was a decrease of 10 mm in the intestual tone lasting to enty minutes. The average increase in tone in fourteen animals in which the effect was seen vas 26 mm. The injection of the physostigmine characterist cally uncreased intestinal movement. The average increase in amplitude of the mo ements was 3.0 mm. The effect of physostigmine on the

intestine of animals with obstruction was an jucrease in both the tone of the intest is and the implitude of the contraction. In ten animals there was an average increase in tone of 10.7 mm. In three the tone of the inte tine vas unaffected. In four the tone fell lut the average decrease was only 4 mm. In seven animals a definite increase in movement was notel: The average was 3.8 mm. In six animals, movement of the intestines was unaffected.

Cbol n produced a rather rapid decrease in the blood pressure. Its effect on intestinal tone and motility was inconstant and insignificant. In only one of four animals as an increase in tone noted and this via relatively slight being only 8 mm

leetyl cholin produced a marked decrease in the blood pressure a seraging 66 6 mm. Its effect on the intestinal tone was variable. In 40 per cent of the animals there was an increase averaging 21 mm and in 60 per cent a decrease averaging 6 mm.

litocin produced no constant effect on the in testing

l enstalin produced no effect on the intestine in four animals and a decrease in the intest nal mo e ment a eraging 8 3 mm in six animals. In an male with obstruction the effect exerted on the intestine by per tallin as inconstant with respect to both time and amplitude of movement. Three an male sho cd an increase in tone one showed a d stinct lever ase and one show ed no effect.

Sodium chlor de pro succed a progre si e increase n the tone and the motility of the intestine in both normal animals and animals vith obstruction

Seloem kr J Priduodenitis S g G) e b Ole 930 i 840

Schoemaker defines periduoden ts as a periduo denal condition characterized by adhesions of t o types-thick cord like structures and thin delicate seils The former are usually secondary to an acti e or healed inflammation of the gall bladder ulcer of the stomach or duodenum appendie t or a pre vious operation in the region in v hich if ey are found The latter occur mo t commonly on the duodenum from which they spread to the large and small omen tum Occas onally they extend to the pylorus but they almost ne er involve the stomach Duval call them essential adhesions becau e no etiological factor is apparent. Their pathological sig ificance i may be the cause of a syndrome simulating peptic ulcer di tress He is of the opinion that t o factors are invol ed in their etiology (1) the pericolic mem brane or so called Jackson's membrane (of while the periduodenal membrane may be a continuation and (2) the so called red stomach a condition d to engorgement of the serosal capillaries of the pyloric antrum in the ch no leucocytic infiltration cedema or ne v connective t saue formation 1 f und

Surgery s contra indicated in peri fuodenit's The treatment should be alo g medical and psychothera peuti lines J con M MORA M D

Strauss A A Bloch L Friedman J C Meyer J and Parker M L Suhtotal Castrectomy for Duodenal Ulcer J Am M 155 1930 xcv 1883

This article is based on 221 subtotal gastrectomies for duodenal ulcer in which there were 12 deaths a

mortality of 5 4 per cent

From four to six months after subtotal gastrectomy 95 per cent of the patients were able to work full time they were free from symptoms required no medication and showed a gain in weight of from 15 to to lb

The aculty following the gastrectomy in the cases reviewed corresponded to that reported by Berg and Lewisohn. Two weeks after the operation the free acid ranged from 10 to 15 and the total aculty from 25 to 30 in 5 per cent of the cases and in the remaining 05 per cent there was no free acid and the

total acidity ranged from 5 to 10

In every case of duodenal ulcer medical treatment should be given first. However if roentgen examination shows a clover leaf deformity little can be expected from medical treatment the majority of such deformitts being due to an ulcer of the posterior wall of the duodenum penetrating into and adhering to the pancreas. The penetration produces contraction of the duodenum the surrounding mesentery the hepatoduodenal ligament and the capsule of the pancreas with resulting dilatation diverticula formation and deformity of the duodenum about the point of contraction.

When young patients with a history of severe hemorrhage come for treatment with a second hemorrhage the authors give an immediate blood transfusion. If the bleeding stops a subtotal gas trectomy is done after from ten to fourteen days. A second blood transfusion is given just before the operation and a third immediately after it if neces sary. In the cases of patients from fifty to sevently years of age who come for treatment with a severe hemorrhage the bleeding usually continues because of a more or less advanced arterio sclerosis. Many such cases require an operation within from twelve to twenty four hours preceded and followed by

blood transfusion

When the duodenum is lifted into view at opera tion it usually presents punctiform hæmorrhages on its anterior wall which are similar to the conjunc tival injection caused hy a cinder in the eye punctiform hamorrhag is pathognomonic of duo denal ulcer and occurs following simple exposure of the duodenum to the air When the involved area is further irritated with the gloved hand or a sponge the punctiform hæmorrhage hecomes more marked It is due to the increased vascularity produced by the chronic duodenitis In the absence of punctiform bæmorrhage the authors doubt the presence of a duodenal ulcer If a clover leaf deformity is shown in the roentgenogram the corresponding deformity can be seen clearly in the duodenum usually a contraction with one or two diverticula above it The head of the pancreas is harder than normal and tightly adherent to the pyloric ring or the first portion of the duodenum. The adhesion always means an ulcer of the posterior will of the duodenum penetrating into the head of the pancreas. The pertoneum surrounding the duodenum and the hepatoduodenal ligament are adherent and markedly thickened. The stomach wall is thickened in its lower third and sometimes its lower balf and if the deformity of the duodenum is very severe the stomach is usually, hypertrophied and cedematous and the climical picture of subacute and chronic gastritis is presented. The authors found a pene trating ulcer of the posterior wall of the duodenum in more than 70 per cent of their cases coming to operation.

In the treatment all pathological tissue including the first portion of the duodenum and the lower half of the stomach should be removed. When about 60 per cent of the stomach is removed the emptying time of the stomach is from thirty to fifty minutes

In performing a subtotal gastrectomy the authors use a no clamp method of the Polya type

CHARLES F DUBOIS M D

## Bargen J A Rosenow E C and Fasting G F C Serum Treatment for Chronic Ulcerative Colitis Arch Int M d 930 xl 1 048

The authors have reported previously on the use of specific vaccines and serum as part of the treat ment of chronic ulcerative colitis and have described the type of case most suitable for treatment with specific vaccines. They have found whole immune borse serum unsatisfactory because of the frequent severe serum suckness which follows its administration in doses sufficient to produce results as the course of the disease has been favorably influenced by serum in the cases of many very sick patients it is urgent that the factor which causes the distressing serum suckness be reduced or if possible entirely removed

Felton prepared a satisfactory product for use in pneumona by a simple method of concentration of anti-pneumococcus serium. Following his sug-gestions. Fasting prepared an antibody solution from whole serium of choric ulcerative colitis by methods somewhat similar to those u ed by Felton hut in many e sentials more satisfactory for the

authors purposes

One part of immune serum is diluted with 10 parts of acidulated 5 per cent ether water. The reaction is kept at a hydrogen ion concentration immune chronic ulcerative collus serum yields a modified euglobulin containing essential antibodies. This euglobulin which settles out in a few hours is collected and then dissolved in a mixture of glycerine and salt. The glycerine and salt mixture is of a sufficiently high concentration to act as a preservative. The concentration to act as a preservative. The concentration that is a disturbed with water and hought to a hydrogen ion concentration of pH 78. The refined serum used for injection in clinical cases contains about 2 mgm of introgen per cubic centimeter.

As the matered has yielded strikingly successful results ith absence of the former distressing sys temic scrum effect the authors have been led to extend its use from the severe cases of acute illness to the more chron c and more res stant eases. In the stri test sense there is no such condition as acute ulcerative coliti of this bacterial type It i merely a m tter of degree of chron city. This

fact must be kept in mind in the treatment

The antibody eugl bulin solution has no t been admini tered in app oximately 200 cases of chronic ulcerative colit's It is given deeply into the muscles The authors believe that some of the c sea have been under obser tion sufficiently long to justify an expressi n of on ion as to the alue of the t eat Accordingly they report the first so e n secutive cases in high the concentrated serum or

antibody solution y as employ d

The 50 pat ents range in ge bet een sixteen and sixty years but 27 of th m were under the ge of thi ty The dur tion of the di ease aried from six months t eighteen years but in only 9 eases had 5\mpt ms been pre ent f r le s than a year In 33 cases the ent re large intestine or the large intestine and the terminal p ti n of the ileum were involved by the infects n In 5 the nvolve ment of the la ge intestine e t nded from the anus to the hepati fle ure in 2 ft m the a us to the splenie fle ure nd n g from the nu to the middle I the descend ng eol n In onl s sthe e no e den e of the i e se in ro tge ogr m mad afte a barium enema. The degree of nama in most of the cas s suggests the se ent of the di ease. In 17 cases there were complext one including such condition as mult ple polypos stricture perirectal ab cess se ercintestinal hamor rhage arthrit's e vthema od um en loca diti and duodenal ulcer. It is impossible to e aluate the effect > h ch these conditions h d on the progre s of the di se rits tratment with ut person l obser tion of the p ti nts but is e ident that n some inst ce they had a p of ndly unf vorable ffect on the esults of the treatment. Hove er

of the 24 p tients ho became free from symptoms only 4 h d compli ations a d in these the e mpli cations were of the less severe type. The suggestion entured that patients with unc implicated chronic ulcerati e c l ti are best treated by at tempts to immu z them again t the caus ti e organism The results from this form of treatme t fa surpass th se of other m thods neluding operation and irrigat on of the col n ith medicat d solutions

All of the patients are living more than a year after treatment vith the antibody solution except one who died follo ing or eration for a ruptured append x several months afte becoming free fr m the ympt ms of chronic ulce ati e col tis

T enty four p tients bec me fee f om sump tom 13 became from 75 to 90 per ce t well and 6 vere benefited at least 50 per cent In only 7 cases as the treatment foll wed by o ly sight o no change These 7 cases vere e ther severe long

stan ling e sea ith extensive in olveme t of the e ion and destruction or with serious complication

such as multiple polyps o stricture Certain factors seemed to have a bearing on the recurrence of symptoms after the patients had be

come chinically vell. One of the most important seeme I t be failure to remove possible foci of in Neute infections of the upper part of the respiratory tract are poorly borne by patients who have had chronic ulcerative colitis. The extent of ins Isement the length of time a pat ent had the di ease and the patient's age and re stance to infection ere factors bearing on recurrence Case of the so called ham rrhagic type in which severe hem trhages cour respond p orly and are prone to progress unfavorably The functional end re ult must not be I st s ght of Whereas in some of the e ses classifed only as benefited the progress of the infect on has undoubtedly been ehecked strictures and diffuse narrowing of the colon interfering in terially with proper ab orption and elimination cause difficulty e en then the ceneral condition is excellent The authors believe it i incorrect to speak of

euring chronic ulcerative colitis that control ling is the proper expression As in many oth t de astating infections the patients are al ays obliged to lo crtain things for their future velfare Therefore it seems important for the a ho ha e ove come an attack of chronic ulce ative col tis to re ence the vace ne period cally. Just how often the treatments should be repeated is still plob-

Recently with aging of the scrum and imploe ment in method f pr cipitation the authors ha e obtained a more rapid response than in the cases rep rtel in this article Ho ever it is still too soon for the permanent results of the method to he kno a

Ro nigen i as of the Appendix Latim te J W Ob t 93 1 8 6 6

Chronic appendic tis frequently creates a clin cal syndrome simulating the syndrome of duodenal 1 cer which can be differentiated only by roe tg n e amination of the gastr intestinal tract. As it ap pears that the m mal human appendix has a v got ous motility and therefo e may empty itself of ba rium before roentgenogr ms can be made non isu ali ation upon repeated observations may be take i to indeate path logical occlusion only suppo ted by sec ndary s gn Chief amon the lat ter is tenderne s Vi ual ation gives evidence of pathologie I change only by reveal structure

senes of 4 049 complete roentgen e am na tions of the gastro inte tinal tract significa t appen d ceal fi dings e eass crated almost 5 t me as ften vith v sualization as ith non visualizat in Definite signs of path log ca) change ere found in so per cent of ppende s hich i e evi ual zeda dinoni) 5 3 per cent of those hich ve e not vi u i ed Structural

changes of the appendix are revealed by the shape of the barum filled lumen Pathognomone of anatomical change are strictures fillform reduction of the lumen stiffening of the wall and bulbous distention which may become cystic dilatation. However these find ings alone are not conclusive evidence of clinical appendicitis as they may be only residual.

Abnormal position of the appendix impairment of appendiceal motility and retained faceal masses which may later precipitate an acute attack of appendictis can be well demonstrated with the roent gen ray. In appendiceal abscess there is a palpable mass which on fluoroscopic examination is found to be situated in the appendiceal area to displace the terminal leum and to deform the execum

As the findings of roentgen examination in 358 cases were confirmed at operation the author concludes that the use of the roentgen ray in the diagnosis of appendiceal conditions is justified

WILBUR BAILEY M D

Richard A and Asselin J Twenty Four Cases of Appendicatis with Peritorius A Comparative Study of the Treatment and the Postoperative Course (24 ob ervations de pénto inte appendicular e Étude comparative du t aite ment et des suites optrator es) Bull et mém Soe at de chir 1330 i 1 1550

The cases reviewed all those of children are divided into two groups. Those of the first group were treated by the author according to the procedure advocated by Ombredanne the chief feature of which is closure of the pertineum without drain age. Those of the second group were operated upon by other surgeons who employed what might be termed routine methods such as tube drainage.

The authors method includes (1) removal of the appendix regardless of the stage of the disease in which the case is seen (2) meticulous protection of the abdominal wound and the surrounding perioneal surfaces during the operation (3) mechanical cleansing of the field after removal of the appendix (4) laxage of the surfaces with ether and (5) closure of the peritoneum without drainage in most cases closure of the peritoneum with drainage of the abdominal wall in others and the application of a Mikulicz tampon in a few cases

The peritoneum is closed routinely in all cases during the second or third day that is to say when there is a diffuse purulent peritomits without necrotic lesions. Experience has shown that when this is done the postoperative course is smoother the general condition is better and complications are less frequent than when drainage is employed. It is of little importance whether the muscles and skin are closed or not. Often it is best to close only the peritoneum in order to avoid suppuration in the abdominal wall.

When the peritoritis has gone to the fourth day and necro is of the peritoneum has occurred it is necessary to decide between complete closure and the application of a Mikulicz drun. The latter course is the more prudent. A tube rubber tissue and gauze strip are believed to be valueless and even dangerous. A tube should be employed only when an abscess has formed

All of the authors patients recovered In every case the postoperative course was very smooth and

recovery very prompt

It appears that postoperative eventration is less
to be feared after Mikulicz drainage than after tube
drainage

In the cases which were treated by surgeons making free use of drainings usually of the iliac fossa and the cul de sac convalescence was prolonged by continued fever and persistent wound suppuration. Hernies were frequent. In the one fatal case only drainage of the abdomen was done at first becondary abscesses followed and the patient su cumbed after removal of the appendix and the application of a Mikulicz drain.

ALBERT F DE GROAT M D

Deaver J B Cancer of the Rectum Su g Cl u
North Am 1930 x 1235

Deaver urges early diagnosis and treatment of cancer of the rectum He says that irritation in the form of chronic ulcer fistula fissure stricture or simple tumor is an etiological factor. In the majority of cases the lesson begins as a simple adenoma

The early symptoms are not impressive A his tory of alternating attacks of constitution and diarrhora in a person past middle age is suggestive of cancer. Blood and mucus in the stools are significant objective findings. The most common can cers of the rectum are adenocarcinomata of the papilliferous adenoid or mucoid variety.

Rectal cancer occurs most frequently at the recto sigmoid juncture where it soon produces stenosis Its least frequent site is the anus Cancer of the ampulla is most insidious in its onset and progress

Cancer spreads outside the rectal wall through efferent lymphatics connecting with an extrumural lymphatic system. Other pletuses then establish extensive and intimate communications with important neighboring organs. Portal emboli produce metastasis to the liver.

The treatment is surgical Most cases come for treatment after they are well advanced. In ad vanced cases all that can be done is colostomy Radium therapy is usually inefficacious as the most common type of rectal cancer the adenocarcinoma is the most resistant type.

In Deaver's series of operable cases the Kraske operation with certain modifications was the procedure of choice

NATHAN N CROHN M D

Hayden E P and Shedden W M Carcinoma of the Rectum A Study of 300 Cases Surg Gyice & Obst 1930 lt 783

The authors review 303 cases of cancer of the rectum in which a clinical diagnosis was made in the period between 1912 and 1928. They state that the most dangerous precancerous lesion in the rectum

is the adenomatous polyp. Rectal cancer is most common in the fifth decade of life.

Of the cases reviewed a family history of cancer was given in only 7 per cent. Of 201 cases in which the cancer was graded mahginant adenoma and adenocarcinoma. Grade 1 the two lowest grades of mahiginance, were found 10.72 per cent.

In the diagnosis biopsy is altrays advisable and never harmful. A change in bowel habits bleeding and rectal pain should alvays suggest the possibility of cancer even when harmorrhoids are visible. In osper cent of the cases digital examination is

suff crent for the diagnosis

I very cancer of the rectum is operable if it is discovered early enough. Rectal cancer remains operable longer than most other cancers. Obstruction necessitating emergency colost my is rare Colostomy is always nece sary as an adjunct to rad cal operation.

Of the ent re series of patients a hose cases are reviewed only 21 who had a positive pathological diagnosis of cancer are alive without symptoms all of the latter were subjected to a complete opera

tion

A radical resection by one of several methods and including colostomy offers the best and practically the only chance of cure. In the cases reviewed radical operation definitely prolonged the life of 4x patients y boultimately, died of recurrence life of 4x patients.

Radium and the \( \) ray as used at present must be considered purely pullative agents in cancer the rectum. In the cases reviewed the patients of cost age no treatment it sed about the same length of time as those treated by it adout in Changes in the technique of irradiation may in the future improve the results.

Su gical diathermy is of value to reduce the bulk

of an inoperable growth

Cutting R A Ca cinoma of the Anus and Recturn 4 J S g 93 x 547

Polyps and rectal adenomata are pred posing causes of ectal can er

The early symptoms of tectal ancer lepend up no hether there is ulce atton sten as or tumor from ton. They const f changes no bed habits—const path no morning d artheral discomfort in rectum path (early in anal cance's infrequent in growths above the assus) and bleeding.

More than so per cent [ ectal cancers are in operable when they act is tadagnosed. Then a e age duration of the symptoms before d agnosis is from mue to twelve months. The care 2 types of gr. it h a single elevated ulcer with a necrotic crater and a normal periphery and a 6 in granular bleed ng mass growing into the lumen which has an indurated base.

The modes f extension are direct extens on through the mucous and submucous lavers extension by way of the veins and extension by way of the lymphatics. Direct extension occurs circum ferentially and is roughly commensurate with the

duration of the disease. A growth involving three fourths the circumference of the boned has probably been present for more than a year. As a rule the fascea propria as invaded only after the growth has attained this size. Venous extension is rare. To prevent I ymphatic extension the schoroctal fait, the levator am muscles the retrorectal bymph gland and pelve mesocolom must be removed.

The average duration of life in cases of untreated rectal canter, is wenty one months. In the cases of patients under thirty years of age no cures are obtained. Diffuse Is implication to offerent and fitted tion do not indicate importability as melistass usually occursfate. In 68 per cent of a series of case coming to autopay, no lymph gland or perirectal issue involvement was found. I marked tendency toward mucus production indicates relative be

The Jones I stage abdomnoperineal operation and the Coffey 2 stage procedure are described and Rankins review of 600 cases in which these 2 operations colostomy posterior resection and the local Quinn Tuttle perincal excision were employed is cited.

Go don Walson Sir C Ti e Treatm nt of Cance of the R ctum with Radium B i M J 193

If tadium treadiation is to supplant surgery in the treatment of rectal cancer it must be able to cure the disease without a permanent colosiomy and leave a rectum which can function According to the find mes of Dukes with regard to the spread of cancer of the rectum lymphatic invasion does not occur until the lesion has penetrated through the longitudinal coat and the main line of spread is into the retrorectal space and upward In a few cases of early mo bile carcinoma of the rectum in which it was tried local resection gave remarkably good end results Therefore though the evidence seems to be that ra dium uradiation will destroy an early rectal growth nathout meerfering with function at will be difficult to pro e that radium treatment is superior to local re ection in the early stages of the lesion

In a comparison of surgery and radium rendation on early rectil cancer it is necessary to consider also the variability of response of adenocarcinoma to radium. Small growths may be destroyed by radium attrad atton with little or no deformity but the ultimate results as regards function depend upon the degree of deformity and librous. Overdosing may cause undessrable sequeix. On the other hand septs in local resections may narrow the lumen of the return quite as often as fibrous strictures from irradiation. The arguments in flavor of radium are more important when radical even ion rather than local resections considered. The choose of freshment would be easier if adenocarcinomata could be graded accord not to adoptional subjects the subjects of the control of the rection of the control of the control of the rection of t

In five and one half years ending June 1 1930 121 cases of cancer of the rectum the majority of which were regarded as moperable were treated with ra

dum During the same period over 60 cases were treated by surgery In a considerable number in the latter the operation was limited to colostomy on account of the presence of secondary deposits. The number of operable cases which have been treated by irradiation is too small and the duration of time since the treatment too short to permit a definite onmon as to the end results.

The difficulties encountered in efficient irradiation are principally anatomical difficulties interfering with suitable access and the radioresistance which seems to be greater in columnar eell carcinoma than in other types. In general, the filtration has been in creased from 0 5 or 0 6 mm to 0 8 mm of plathnum A ten day exposure with constant intensity is the

method of choice

Disadvantages of radium treatment are that two months or more are required for disappearance of the le ions chronic infection occasionally renders it difficult to determine whether recurrence or inflamma tion is present at the site of the lesion and bealing of the operative wound made for insertion of the radium from behind is long delayed. In cases of operable lesions involving the perineal portion of the rectum exclusive of anal carcinoma radium should be used only if surgery is refused or contra indicated A considerable number of higher lesions have been treated by the transperitioneal route with the use of radion seed in preference to radium needles because the former cause less disturbance to the pertinenum.

The use of radium in an advanced growth in the upper part of the rection or the lower portion of the sigmoid is entirely justified Squamous cell careino mata in the anus which have not infiltrated deeply into the ischirocteal fossa and have not invaded the inguinal glands seem to be amenable to interstitial irradiation with the possibility of immediate initial

cure

In advanced inoperable cases it is questionable whether irradiation adds anything to colostomy since marked improvement often follows colostomy since The problem in irradiation is to secure adequate and uniform treatment. According to the findings in the particular case the treatment indicated is the transperitoneal introduction of radion seeds or radium needles the mesorectum also being treated or posterior barrage vaginal irradiation intrarectal seeds or a combination of these methods. The author cites a case of advanced carcinoma in a patient aged thirty six years in which the prognosis was very grave but the patient was entirely well eighteen months after a total combined dose of 15 coom in the second of the coordination of the second prognosis.

Borderline cases offer a fertile field for urradation In general the use of radon seeds seems less dependa ble than constant irradation with radium element but a combination of the two decreases the dosage Primary irradiation if unsuccessful increases the radioresistance

In conclusion the author says that actively growing circinomata in young persons respond well to radium irradiation whereas slowly growing carcinomata in elderly persons are more resistant. If a

growth adequately treated with radium shows little cordenee of retrogression after two months further tradiation will probably be useless. Secondary irradiation is of less value than primary irradiation. In the abdomen and within the lumen of the rectum radion is of more value than radium. In inoperable cases radium irradiation is a good palliative meas true sometimes resulting in operability with a hope of cure. Patients with epithelioma of the anus are benefited by irradiation treatment.

A JAMES LARKIN M D

Aufses A H Skeletal Metastases from Carcinoma of the Rectum Report of Eight Cases Arch Sirg 1930 xx Pt 1 916

Aufses adds eight cases of rectal carcinoma com plicated by skeletal metastases to the sixteen reported in the literature. In the main, the most common sites in the metastases in the twenty four cases were those given by von Recklinghausen. Given in decreasing order of frequency, they were the ver tebræ femur in bis skull sternum humerus pelvis sacrum radius scapula and ulna. In rectal cancer bone metastases occur late, but with sufficient frequency to make their endy diagnosis of importance for the relief of pain and the prevention of fractures. Jacob M. Voga. M.D.

## LIVER GALL BLADDER PANCREAS AND SPLEEN

Edington G H and McCallum G The Occur rence of White Bile in Gall Stone Obstruc tion Note of a Case With a Histological Note Glasgow M J 930 cuv 257

Edington and McCallum report a case of obstructive jaundice of two months duration in which there was an impacted gall stone in the lower part of the common duct. The duct was found on laparotomy to be widely dilated and distended by white bile which was bacteriologically sterile. The gall bladder was contracted chronically inflamed and packed with stones and showed empyema. The liver presented fatty infiltration areas of necrosis and bile casts in the bile capillaries. The patient died on the table. The postmortem pathological report confirmed the operative indulings.

Reports in the literature seem to warrant the following conclusions as to the production of white bile

- 1 Whether the grill bladder is diseased or not the initial rise of pressure in the obstructed common duct impairs the power of the liver to send down further supplies of bile
- 2 The subsequent fall of pressure in the common duct is due to impairment or failure of the propul ive power of the liver
- 3 The presence of bile in the urine and of icterus shows that the secretory activity of the hepatic cell is not lost
- 4 The delay in the re appearance of bile in the discharge after relief of the obstruction and the

establishment of d ainage is due to the time required for recovery from the impairment of function

5 The white hile is due to secretion from the duct wall and the d appearance of b le elements from it is due mainly to absorption by the duct all

These conclusions do not solve the problem of the clinical infrequency of white bile or explain the gene al effect on the patient of the accompanying derangement of h er function

THE CRANSTON

Rich A R The P thogeness of the Forms of J undic B !! J i !!! pk !! p B lt 93 338

In discussing previous studies of jaundice Rich states that it has been definitely shown that bilirubin i formed outside the epithelial cells especially in the bone mar spleen and liver and that the ret culo endothelial cells are esponsible for its pro duction. The only known source of bile pigment is hæmoglobin

Theoretically jaundice may develop under the follo 1 g cond tions ( ) if the threshold of the liver for b brubin excretion becomes greatly raised (2) if bilirub n is p oduced faster than normal h cr cells can excrete it (a) if the e c etory mechanism of the liver is so disturbe I that the amount of bili rub n normally p oduced cannot be satisfact ily emoved from the blo d and (4) if any combination of these c ndit as occus. The first and s cond poss bilities are more or less theoretical It is known that the liver is capable of excreting a much greater quantity of b I rubin th n it is normally called up n to excrete Undoubtedly disturbances of the excre mechanism of the 1 er may lead to jaundice A decrease in the e cretory po er of the li er cannot occu athout a loss of cell f om necros s As a rule jaund ce is d e to n increase in the amount of hilirub n assoc ted v th a decrease in the funct on

of excrets n of the liver The v n den Bergh test 1 of value in differentiat g cases ith etention of bilirub n in the plasma from those with regurgitat n of h le pigment after its e cretion by the l er Th direct v n den Bergh test indicates that whole bile containing bile acids and choleste in as ell as bil rubin h s been re gurg t ted 1 to the bl od st e m In such cases bstruction of the ducts or necro s th re is eithe of the l ver cells high permits b le to esc pe from the canal cult int the bl d The indirect in den Be gh re ction sho s the presence in the blood of bilirubin hich h not been remo ed by the live

The author believes that the old classification of jaund c nt the of structi e and non obstructive types should not be used. He prefer to cla ufy it as (1) retention jaundice in which the van den Be gh test shows an indirect reaction and the stools and urine sho an increased amou t of u obil n and (2) regurg t ton jaundice in which there i a di ect an den Be gh reaction the sto I contain a decreased amount of urobilin and the urine con tains bil rubin and bile salts

The causes of retention jaundice according to Rich are (1) anoxemia from anamia and chron c passi e congestion (2) febrile d scase from anamia and pulmonary consolidation (3) immatu ity of the liver cells in the ne born or (4) an undetermi ed cruse such as is responsible for the jaundice associ ated with Hanot's cirrhosis

In all of the various types of anamia seen both clinically and experimentally at ophy of the efferent vein of the liver lobule : found The find ings are similar in chronic passive congestion and in experimental animal subjected to a lowered oxygen ten ion The author therefore believes that the atrophs of the efferent veins is depende t upon anoxemia He emphasizes however that jaundice a ill occur in this condition only if there is an over production of bilirubin associated with a decrease in the function of the liver. Of a group of cases of paro ssmal hamoglobinuria jaundice occurred only in those in which the anxma was marked In cardiac decompensation with chronic passive con go tion there is an increase in the b l rubin conteat of the blood The jaundice hich follo spulmo ry 1 farction in chronic passive cong stion associated with cardine decompensation is due to increased

In febrile c nditi ns there i a depres on of the fu ction of the liver but the produces j und ce only when the bilirubin content of the blood is 1 creased When in the febrile humolytic animias the effect of the fe er is added to the depressing effect of the anamia the liver may be rendered i capable of excreting the exce s of bil rub n Jau dice may then appear The jaundice which occurs during the course of lobar pneumonia is attributed by the author to the febrile reaction and the an " m a leterus neonatorum is the result of a mi ked increase in the bilirubin content of the blood and depressed function of the liver

In considering regurgitation 1 and ce t is impor tant to bear in mind the fact that many agents pro duce locali ed zonal damage in the liver Chloro lo m carbon tetrachloride and arsphenamine cause central necrosis in the lover lobe infect ous agents attack primarily the m dzonal portion of the lobule and eclamps a flects the periportal res on In regurgitation jaundice there i a lesion in the b liary system and ruptu e of the canalicula results from a ereased pre sure due to obstruction o fr m necr s A TON OC ER M D of the hepatic e ll

Ob tructl e Jaund c Rowl nd R P Ob t 93 1 844

Obst uctions of the common b le d ct or the com mon hepatie duct produc ng jaundice are var ed and numerous They may a se ith n the lumen or wall of the duct or outside the duct

Larly operative inte fere ce is indic ted in all ease of obstructive jaundice as its isk is small com pared 1th its usual beneficial effect. As operat o s for the relief of jaundice are rarely urgent the ough pre perative preparation is poss blc

To determine whether a stone is present in the common duct it is sometimes necessary to perform a choledochostomy. If a stone is found it may usually be removed through an incision made in the supra duodenal portion of the duct hit when it is firmly impacted the use of a retroduodenal or transduodenal route may be necessary.

In obstructive jaundice in which the cause is in removable and the gail bladder is distended with bile cholecystogastrostomy is indicated because of the ease with which it may be done and because it is less liable to be followed by ascending infection of the liver than an operation shortcrutting the gall bladder to the duodenum jejunum or colon

In a few selected cases especially those of pan creatitis associated with cholecustitis thickening of the gall bladder wall and contraction of the gall bladder in a very sick patient cholecustostomy is

the operation of choice

When the gall bladder is not available for anasto most either the choledochus or the common hepatic duct may be joined to the duodenum by a lateral or end to side anastomosis over a rubber tube. When the common duct is explored the author always drains it through a tube led out of the abdominal cavity through a stab wound

The after treatment 1 important because of the low vitality of the tissues which predisposes to her mation and because of the decrease in liver function

The mortality of cholecystogastrostomy is under to per cent. While shortcirculting operations may be beneficial only temporarily they afford comfort and prolong life.

STINLEY H. MENTZER M. D.

Miller S R and Waters C A Intravenous Cholecystography and Liver Function Determination Chinical and Roentgenological Value So th M J 1930 1979

Cholecy stography is primarily a study of the func tion of the liver and gall bladder rather than an examination for liver or gall bladder disease. The authors have found that the intravenous administra tion of the dye usually does not cause a dangerous reaction and produces more dependable cholecysto grams than are obtained from the oral administra tion of the dye Any reactions that may occur are manifested by a diffuse ery thema urticaria or a drop in the blood pressure and are promptly relieved his The nausea vomiting and diarrheea adrenalın which frequently follow the oral administration of the dve do not occur when the dve is given intra The intravenous administration of the dye should be used only by those who have mastered the technique of intravenous therapy. By such it may be employed in off ce practice I he authors use 2 gm of phenoltetra iodophthalein regardle s of the body weight

One hundred and thirty one consecutive cases in which the intravenous technique was used are reviewed. Patients with severe juundre due to cholan geitis stone in the common duct and severe here damage due to arsphenamine were examined with

out causing any reaction. Venous thromboss followed the procedure in z cases but in both of these the examination was technically difficult. Of 4 cases which came to operation the \text{\text{ray}} and agnosis was confirmed in \text{\text{o}}(3,3) per cent). Of the 107 non operative cases the clinical and \text{\text{ray}} ray findings agreed in 90 (89,7) per cent).

Feldman M Cholecystography An Analysis of 500 Cases Observed by Means of the Oral Method Radi logy 930 xv 675

Although the intravenous method of cholecvs tography is slightly more accurate than the oral method the author believes its greater accuracy is not sufficient to compensate for the more severe reaction it causes. The method employed by Feldman is as follows

Two flat roentgenograms are first made From to 26 5 gr enteric coated capsules of tetra iodophenolphthalein are then given the number depending on the body weight At 5 PM half of the capsules are given together with a fatty meal to empty the gall bladder Two hours later the rest are given 4 every fifteen minutes No more food or fluids are then permitted until after roentgeno grams are taken sixteen hours later. Five toentgeno grams are taken sixteen hours later. Five toentgeno grams are taken sixteen hours later five toentgeno in order to study, the mobility of the gall bladder and eliminate the intervening organs. A fatty meal is then given and 2 more roentgenograms are made an hour later to study the contraction of the organ

This technique is sufficiently accurate for varia tions in density of the shadow to aid in the diagnosis as in the intravenous method. There are no contra indications to the procedure no ill effects having followed its use in cases of jaundice or pregnancy

Of 500 cases examined a diagnosis of gall bladder disease was made in 287 Of 86 which curve to oper atton the pre operative diagnosis was found to be correct in Sr (94 per cent). In 3 of the 5 cases in which the pre operative diagnosis was incorrect the error was due to poor filling of the gall bladder and in to faulty interpretation of the roentgenograms. The diagnosis was correct most frequently in cases showing stone and those in which there was no shodow. Maurice L. Daug M.D.

Rewbridge A G and Halpert B Roentgen Physiological Studies on the Gall Bladder Ex periments with Liplodol and Brominol Light on the Dog 1 J R tgenol 1930 vt 634

Following a hiref review of the work of other in vestigators along similar lines the authors report studies on direct visualization of the gall bladder by withdrawing the gall bladder contents and replacing them with a radiopaque substance. The investigations were undertaken to evaluate the available data obtained by this method and to gain further information regarding the mechanism of the function of the gall hadder.

They injected twenty six laparotomized dogs with hipsodol or brominol light and examined them roent

genographically at intervals thereafter. In most of the dogs no shadows were noted after the tenth das and it was found that the bromunol light disappeared relatively sooner than the I prodol. At secrops, droplets of lipsoids or bromunol light were found in the contents of the gall bladder in most of the dags in which the shadow had disappeared. The exit of lipsoids and bromunol ight occurred spontianeously whenever the orifice of the exite duct became the lowermost point of the visues. In dogs in which for some reason, this did not occur the lips did remained in the saft bladder almost under fastely.

From their observations the authors conclude that in the dog the gall bladder is not completely emptied the each meal and probably is never emptied completely toolin Hurris MD

Bernhard F The Dangers of Operations on the Bile Ducts Tiel Cau s and Gont ol with Special Cop ideration of lostoperathe Lister Di ase Ub i e Celah be Operat n an d C lien ge h U ben differ mpfung mit d Brut Actra d pot p a Leb ankung ) B / kl Ck og 18

A study of on fatalities f flowing 4 557 opera to us on the tile ducts revealed esuits which differed variously from Hotz statistics. Perstonetis which caused one fourth of all fatalities in Hotz's cases was responsible for only one (ith as many in this series falling atrikingly behind the other causes of death. The number i fatalities from pulmonars mbol sm vas h ghest following choice steetomy and the number from cholamic bleeding was highest after choled chotomy Manifest reterus vas never seen in cases in y high death resulted from embolism but was al avs pr ent n those of fatal cholamic hamo hace The latter observation is easily ex plained The former suggests that jaundice may p otect gain t pulmonars emb him because t is as cated with a decrease in the coagulability of the blood. The deaths from pulmonary complications we e fer er than half the number computed by Hotz hich may be explained by the fact that almost all I the pat ents were of the rural type

The post pe atme cardiac c upleat ons how ever seem to be independent of the type of patient Whereas they we e in the d place in Hotz's cases in the cases re sened by the author they came first and were r sponsible for one fourth of the fatahties In only one seventh of the cases of death from heart fa lure after operation we e definite autopsy findings made As a basis for this surprising fact the sete us must be considered in add tion to the anasthesia and operation as its damaging effect on the heart has been known f m experimental and clinical observations. In the statistics the relationship is clearly apparent since although one half of all of the patients who died were icteric twice as many of those who died from heart failure were seteric icterus being 4 times more frequent in the latter group than in the total number of cases Acco ding to the statistics even the presence of mild acterus favors death from cardiac insufficiency

Lattle attention has been paid to death from liver intoxication which in the cases reviewed was as frequent as death from cholæmic hæmorrhage. To explain it. Bernhard experimented on animals. He found that gly cogen def ciency in the liver is re sponsible for the development of postoperative inter intorications and degenerations and that fol for ing mechanical obstruction of the common duct there is disappearance of glycogen aith ugh no noteworthy change in the blood sugar level may be demonstrable The decrease in the gly cogen content of the liver cells in obstructive icterus is partially explained by the effect of the bile on an increased diastase destruction of liver glycogen Also the isek of bile in the bowel and the consequent faulty absorption of fat results in the burning of increased quantities of carbohy drate and increased utilization of In er glycogen Glycogen firation by the liver is disturbed by the bile obstruction but is not entirely arrested Insulin and glucose infusions will increase gly cogen synthesis even in bile obstruction an effect of importance in the prevention and treat ment of gly cogen loss in the liver Farly recognition of this condition is possible by the demonstration of utobelin and urobilinogen in the urine In addition according to Bernhard's experience there is a fall in the blood sugar and a rise in the residual nitrogen before and ammediately after the beginning of liver intoxication is a decrease in the blood sugar en dangers the nutrition of the heart muscle and rende a the heart especially sensitive to anaesthetics the administration of glucose and insulin is strongly recommended also for this reason

### MISCELLANEOUS

Ladd W E Tl Acut Su gleal Abdomen in Chill den P 1 M J 193 xxxv 53

One of the most common abdominal conditi as in children is congenital pylor c stenosis. The symp toms usually start in the third week of I fe with the pr jectile ejection of tomitus containing ingested food and gastric secretions but no bile The stool become scant; and are composed of bile mucus and intest nal secrets us. The infant to es neight and becomes deligidrated. On physical examination peristaltic waves may he seen in the epigastrium They tun from left to right except just bef it vom t ing when they become reversed On palpation an olive shaped tumor may be felt just to the right of the midline in the region between the hier and the umbilicus Relatation of the abdominal muscles i t palpation is best obtained by giving sufficient water to cause vomiting The moment just before the oc cutrence I vomiting the pylone tumor can be felt read by This method i preferred to the admin's tration of a barrum meal and \ ray examination for if surgical interference becomes necessary con valescence is h ndered by the ba ium Among the tarer conditions s bich may complicate the diagnosis of pyloric stenosis are atresia and stenosis of the duodenum. In intestinal obstruction the abdomen will not be distended if the obstruction is high and the comiting effective

Intussusception is an acute emergency of child hood Early diagnosis is essential. The condition occurs in the sixth or seventh month of life. The onset is sudden and associated with crying severe abdominal pain pallor sweating and nausea or vomiting. The pain is parovismal. Between the spasms when peristalists is inactive the infant appears perfectly well. The invagination usually starts at the elocaceal valve. At the onset, the tumor is usually in the right side. A few hours later it may pass up under the liver margin where it is difficult to palpate. Abdominal distention does not become marked until late in the condition when faecal vomiting and fever occur and the mass can be pal pated only by rectal examination.

Meckel's diverticulum may have features in com mon with intussusception or may be the cause of it Of the author's series of twenty eight cases blood was found in the stools in over 50 per cent

The most common abdominal disease due to bac tenal infection which occurs in childhood is appendi citis. This condition develops most frequently be tween the sixth and eleventh vears. Before the third year it is rare. The first symptom is pain. The pain may occur in the right lower quadrant or may be referred to the epigastrium of the umbilical area In some cases because of the relatively greater length of the appendix and mesocacum in the child it may be felt in the pelvis. It is soon followed by nausea or vomiting leucocvtosis and fever The usual temperature is from 100 5 to 102 5 degrees F. A temperature over 103 degrees F is sufficiently rare to suggest that the diagnosis is incorrect.

Pyelitis is often confused with appendicitis. An accounting and a moderate degree of abdominal distention. The temperature is usually higher than in appendicitis. During the first forty eight hours there

may he little or no pus in the urine

Pneumonia usually central or situated in the lower lohe near the diaphragm may present symptoms suggesting abdominal disease While it is frequently diagnosed as appendictits it is characterized by rapid and labored respiration and a higher temperature than is found in abdominal conditions Gridual firm pressure produced by the hand tends to relieve the spasm and decrease the discomfort whereas in pentoneal inflammation it has the reverse effect.

Other less frequent abdominal conditions in chil dren are acute mesenteric adentits primary pento nitis retroperationeal iliac abscess (not psoas abscess) and malformations of the urmary tract

CHARLES F DUBOIS M D

# GYNECOLOGY

#### UTERUS

Fr enkel L Cervical Plasti s in Patteular the Stumdo f Op ration (U b Cc platk she der d St mid rf h) / I B f G) k 03 p 4

The difficulties of the usual amputation of the cervit disci sion or the Emmet method may be avoided by the Sturmdorf of cration. In the latter a cone shaped portion of tissue with its base dos n wa d and its apex near the internal os is excised from the center of the cervix and then by an anterior and a posterior suture through respects els the anterio and po terior aginal margin of the incision the wound surfaces are brought together. The suture is introduced thr ugh the cervical canal passed over the surface of the wound and through the antenor or posten r cervical vall into the vag inal forms. When the two sutures are drawn to bether the agin I edge of the ound comes to lie deep in the ce vix so that the ce vical ound is overed by v gin I muco a If necessary shaped excis ons may be made on the right and left sides and the defects cl sed accor ling to the method of Schroeder

The healing after the operation is excellent Leueorrhoe ceases at once. In to cases there was a

sub equent pregnane;
The article eo tains e ght illustrations

If H Schaid (G)

M yer J L A Study of the Effect of Acriff vine Glen Intra enously on Experiment 1 Ut ine Infection in the Dog to J Ob t & Gy 193

In e perments on dogs the author I and that the intre enous injection of an appr prate dose of acri flavine bad beneficial effect on the e urse of infection of the uterus. The earlier the dye a synected the more definite the effect. In some instances cull tures of the no ulated I inforced uterine born ere ste le after the 1 jecti in The favo vible effect of the acriflavine on the course of the uter e infection as shown also by the I un of the body temperature t normal by Ns s

From these esult the author c neludes that aeri flavine gi en ntravenously n appropriate dos ge is wo thy of a trial in early uterine infecti ns

IIC NELL MD

Hitn elmann H Th Diagno s of Uteri Carct noma (D D g d Ut m) Al 11 h h 93 5 7

Hinselmann u ges the use f colp sc ps in the diagnosis of c cinom of the uterus. He makes a colposcopic e amination routinely in e ers gineco

logical case Very early carcinomata come under observation extremely seldom. In a series of 9 000 cases Hinselmann found only 2 in v hich the cancer as developed to about the degree described by you Franqu in Stockel's textbo k The greatest diffi culty I es in determining whether red areas are to be interpreted as earcinoma Sometimes b opsy m st be done but in many cases this procedure is unneces. sary Hinselmann f und leukoplakia in 168 of his case and calculates that it is present in 1 of approx imately 90 patients. He belie es that all leukoplakias lead to carcinoma The white color of leukoplakia is due to keratotic or parakeratotic layers a d p r haps also to the stratum granulosum. When the upper layers of epithelium have been cast off the diagnosis is not always poss ble On the other hand the drag ost fintact leukoplakia is al ays easy by eolposcopy Occasionally the iodine reaction my be used as an aid

Histologically leuk plakia is of a types () a typeical coronfied epithelium ithout budd g (2) a typeral e-crinfied epithelium with budd g (3) a typeral e-crinfied carcinod epithelium without budding an f (4) at yield coronfied earenod epithelium with budding. It is earcinoma according to the old definition.

Of 70 bistologically studied ea es of leukoplaka of the portion which are summarized in a table 31 were of Type 1 ayer of Types 1 and 2 4 each were of Types 2 and 3 and the remainder showed vanous type. If item of the fir in so ered thindly squam ous celled earcinomata according to the old terminology.

The author believes that earcinoma of the port of develops from leukoplakie epithel um (C)

Zeif E Bleedings After the Un passe Sign of Caclin ma of the Ur u (D po I kimakt che Blut nalk haf d Ur uc c m) Dikmd Bick ch 93

Cancer princularly cancer of the femal get t has is today the m at frequent cause of death n Germany. In spite of the progress hich has be n made in tratment by surgery and irradation the boolute percentage feures is only itom 20 to 5. The campugn against cancer cun be success 10 offs is the result of early 1 g os 11; the task of the general principles of the condition tits callest tige.

In important sign of beginning cancer of the fe m le genitalia i blee ling. In some bet een the twe teeth and it hit eth sears of ago; regular bled lings may simetimes be due to cance. Lut no ome who have passed the me opause their courrence should always suggest cance. The auth risr carch has shown that genital carcinoma is present in more than four fifths of cases of bleeding after the meno pause and in about one third of those of hamorrhage at the time of the menopause By bleeding after the menopause is meant any bleeding that occurs six months after cessation of the periods Therefore when gynecological examination di closes no other cause bleeding after the menopause is to be re garded as a sign of genital cancer. Not only the occurrence but also the kind of bleeding must be recorded A single bæmorrhage after trauma for instance is not apt to be due to malignancy whereas a continuous watery bloody di charge and slight but repeated bleeding on straining coitus or urination is to be regarded as a sign of beginning carcinoma of the uterus

P Zweifel has been able to cure by operation 87 per cent of patients coming for treatment with early symptoms. When bleeding is not associated with malignancy it is due to such lesions as ero ions polypi and decubital ulcers and its cause can be easily determined Whenever the diagnosis is un certain an exploratory curettage should be done Better ten times too often than once too seldom In cases of irradiated myoma bleeding occasionally recurs after a time but can usually be recognized as of the menstrual type and has no relation to postchmacteric bleeding Since chimacteric bleed ings ie bleedings at the beginning of the meno pause are also caused by cancer in one third of the cases every irregular bleeding requires a gynecological examination and if necessary an exploratory curettage to determine its cause STRAKOSCH (G)

### ADNEXAL AND PERIUTERINE CONDITIONS

Kovacs F Malignant Tumors of the Ovary (Ueb r die boesartigen Ovarial eschwuel te) Ortosi h til 1930 1 640

The author reviews the cases of malignant tumor of the ovary which have been seen in the Second Gynecological Clinic of Budapest during the last cleven years

Of 955 tumors of the ovary 174 (18 2 per ceot) were shown histologically to be malignant. The incidence of malignant tumors was highest in the fifth decade of life. Fift, one (20 3 per cent) of the women with such tumors were nulliparte or were multiparte and 33 were primiparte. Ascites was demonstrable in only 40 per cent of the cases but at laparotomy more or less free fluid was discovered in 55 per cent of the cases. Bulateral tumors were found in 85 cases and distant metastases in 70 Morphologically 175 (18 9 per cent) of the neo plasms were carcinomata 16 (16 per cent) were sarcomata and 6 (6 per cent) were teratomata

Of the carcinomata 56 2 per cent were of the cystic type. Serous cysts with malignant degeneration were observed more frequently than malignant pseudomucinous cysts. The rare combination of detmoid cyst and carcinoma was found in 2 cases both of which showed a true squamous cell car.

cuoma arising in the epidermoid elements of the dermoid. In one of these cases a permanent cure was obtained. In the other death occurred several months after the operation. Evil, enhenger tumors were noted twice. Ovarian sarcomata could usually be diagnosed only at the time of operation. They were bilateral in 33.3 per cent of the cases and were found most frequently in multipairs. In it case bilateral tuberculous salpingitis was discovered in combination with a solid alveolar carcinoma. The patient who was twenty years of a ead showed no sign of ascites was free from recurrence three years after the operation.

Exploratory laparotomy under local anesthesia was performed routinel, even in presumably in operable cases. The primary mortality was 2 3 per cent and the late results vere correspondingly less favorable. Only 63 of the women could be re examined. At the end of more than five years 17 (27 9 per cent) were free from symptoms 20 (32 per cent) were dead and 5 had recurrences. The re manader were free from symptoms from one to five

years after the operation

Operation was performed by the abdominal route in all cases except 2 in which it was done by the vaginal route. In 30 cases both adnexa were removed and the uterus was amoutated supravag inally in 37 only both adnexs were removed and in 30 only the affected ovary was removed. The advisability of taking out both ovaries in cases of unilateral involvement was decided on the basis of the findings of the particular case older women both adness were removed on the mere suspicion of malignancy in younger women only one ovary was removed even when there was definite proof of malignancy That this was safe is evident from the case of a patient who has been free from recurrence for nine years On the other hand recent investigations carried out by Frankl show that metastases in the myometrium are much more frequent than was hitherto assumed There fore at least a supravaginal amputation of the uterus should be done in every case

E GOLDBERGER (G)

#### EXTERNAL GENITALIA

Zubrzycki J The Formation of an Artificial Vagina in a Case in Which the Uterus Was Present (Ueber de Bildung e er kuenstlichen Sche de b forhandener Gebaermutter) Polska ga lek 1930 i 103

Congenital absence of the vagina was discovered in a twenty three year old girl who had not yet menstruated. The vulva was well developed the uters was present and there were normal adnera on both sides. The patient complained of pains in the lower part of the abdomen which had occurred every month since her sixteenth year.

In I chruary 19 9 Schubert's operation was done.
The author prefers this operation on account of its low mortality. Healing was smooth and in July

1029 after repeated bacteriological demonstrations of the absence of pathogene organisms (strepto coccus stapby)coccus colon bacillus) in the vaginal dora implantation of the portion into the new vaginal canal was done by the abdominal route. The presence of a vell formed uteries of almost normal size and of unchanged adners was demonstrated. The owners bore numerous scars from folkied ruptures. The attetic lower third of the cervical canal was incised the margins were everted to prevent later adhesions and the portio was made fast in the upper end of the canal it partial forms (formation

Itealing vas smooth. The first menstruation appeared six veiks after the operation and lasted four days. Examination with the sound after the menstruation showed the fingth of the uterocervical canal to be 8 cm, the width of the vagina? Ingerbreadths and the internal genitial a normal Four weeks later the second menstruation appeared it lasted four days and was painless. Following her discharge the patient reported that her third menstruation had occurred after a regular interval

The author states that this ease closely resembled Schubert a case of eongenital absence of the vagina in which a complete cure was obtained. In the author's case the conditions were more favorable as there vere no inflammatory changes in the adness on either side. The question as to whether the patient had or had not menstruated before the agmoplasty cannot be any ered but it was evident that ovulation had occurred Absence of changes in the mucous membrane of the uterine cavity caused by harmatomata of the fall plan tube or uterus is not enough to exclude menstruation as the blood could have been forced out into the peritoneal ca ity through the tubes by igorous contractions of the uterus and could then have be come absorbed without the development of inflam matory phenomena

The author bele es that no ingle surgical procedure can be used in all cases of congenital absence or sec inda y atresia of the vagina. Operation in t o stages h s great advantages because its tech inque s easier and it pe mits exact determination

f the condit n of the uterus and adnera. However, the cer ithat disagr and angain the danger of pentionitis and seps a find the effects of it o se ere surged intervent in a fin the case reported the author performed the operation in two stages because he wanted to estimate as a cally as possible the processive capacity of the patient from the condition of the uterus a d adnera. Komassa (G)

#### MISCELLANEOUS

I ung J M n truation and I regula Uterine ilæmor i age of Ovarian Origin P t II J

Menstruation can occur in the absence of ovula tion and the corpus luteum. Therefore it eninot be regarded as analogous to pseudo pregnancy in lower animals for which a lutted I hase is necessar. Its place in the cycle of ovulation rules out an analogy between it and pro estrous bleed ug in the lower animals

In man and monlevs menstrustion is a function of the peculiarly harmorrhapic type of implantation of the own. The bleeding of menstrust on and the bleeding of implantation are bonologous in that they occupy the same place in the set cycle and the external bleeding expresses the escape of the unwanted implantation blood in an infertitior or a non-outst

ing cycle

Many of the bleeding disorders erroneously at
tribute I to such conditions as chronic gland lar en
dometritis chronic metritis and I bross utera e in
reality expressions of disturbances of unknow origin
in the ovarian (or combined pituitary ovarian) regulation and definite chinical entities with correlated
structural changes in the ovary can be recognized.

ROLE OS FO MD

Bérard and Crol at Endometrioma f the Sigmoid in a Pati at with Bilateral S robæmo hagie Osts of the Oarp (indometriom of 15 ig he emilde attit dind ble by t sérobém t q d 1 au ) L; & 193 650-

The case reported a as that of a voman thity two years of age who had had signs of occlusion of the intestine and a feeling of weight in the pel is fabout two months. Frammation of closed a mass projecting into the pouch of Douglas and pushing the rectum back. V diagnosis of ovarian c st possibly biliteral was made

A operation cysts of both owness were found After their removal two white nodules were d's covered on the 5 moid loop about 10 cm abo e its end These were set in the tunics of the intest ne and suggested Promatous nodules. As they reduced the caliber of the intestine resection was done. The mesentery was not involved as the nodules were to the free border. The intestine was sutured end to-end and the wall of the abdomen then closed in three lavers around a small drain. Uneventual recovery resulted.

Histological examination showed the nodules to be endometriomata. The usual site of such tumo s is the rectovaginal septum.

Sitheim II Advances in the Treatment of Sterility in the Female (F t latt us d B hadfug de well he Stelltst) F 1 h d Tk p 93 458

The study of stenity in the female entered a new phase with the introduction of the Rubin method of cheff of the first of

method may be used also to keep patent the new lumen made by salpingostomy

In re examining patients who have been subjected to the Rubin test by other gynecologists Sellheim has frequently obtained other results When the tubes have been pronounced impermeable he proceeds with great caution. In cases in which the cervix has been grasped with forceps he delays the insufflation for a while because the use of the forceps may have caused contraction of the uterine mus culature and the isthmic portion of the tube Occa sionally he finds a tube patent which has been pronounced impermeable He calls attention to the fact that a leaky insufflation apparatus may give the impression of permeability of the tubes. In the cases of women who have conceived immediately after tubal insufflation he has noted that the preg nancy was remarkably short

Sellheim has given up roentgenography of the tubes with the use of a contrast medium as it may cause signs of peritoneal irritation. By means of

tubal insufflation he distinguishes easily permeable tubes tubes which are hard to permeate and impermeable tubes. For sterility in cases of easily permeable tubes he recommends dilatation of the cervix and curettage followed by serual relations without delay. If conception does not occur in the course of the next three months he dilates the cervix with a Hegar dilator immediately after the menstrual period and washes out the cavity of the uterus with physiological salt solution. This procedure is repeated every three months. For cases in which the tubes are impermeable he recommends sal pingostomy followed by insufflation to maintain patency of the lumen or implantation of the tube or ovary into the uterus.

Selheim has seen benefit from abstinence from sexual relations for a considerable period of time and from balneotherapy. He disapproves of treat ment by stimulative roentgen irradiation as he be leves it may be more harmful than beneficial.

NUERVBERGER (G)

# OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

Runcz A The Importance of Ag in the First
Pregnancy (Di B d t ng d 1 1 lt 1 1
1 (nG b t) O h11 93 63

On the basis of carefully compule statt tural data the auth a stitempted to determine the influence of age 11th regard to complicate no of prepasing in primipare. The 11d number of deliveres as 6 432 of 1 h ch 2 650 (41 2 per cent) 1 cre those of primipare. Then 1 six of the mothers 1 cre under seventeen sea so dage 400 between seventeen and treaty years 358 between twenty and then 1 years 538 between twenty and then 1 years 538 between twenty and then 1 years 548 between the 1 years of the 1 tree than 1 of over forty to the 1 years of 1 years of

f pregnancy par is regards complication tiquiarly toxenuas a difference c uld be discerned bety een the various age groups. Breech and transse se p esentations occurred more frequently in the elderly primip ra Premature rupture I the mem branes a allo more common in the lder somen probably because firig dity fithe birth passages I rima y and sec ndary mert were no mo e f e quent in the older v men than n the sounger tomen but in the fo mer mo e often necessitated one at reite mination of the labor. The mist comm nly perf rmed perat e procedure vas episi otomy. The in clence if cops oper tions vas highe t (43 7 pe cent) in the cases of primipare o er forty years of age as salso the incidence of casarean sect n Puerperal complications were most common in vomen between thirty and thirty he years of age but the m rights of these c not tions vas no higher in the Her wimen than in the vounger vomen

As a result of his obsecutions the author drive in the conclusion that the e is little difference in the incidence of complications in young mothers and mother so fine a district of years. While the most favorable age for the first program y s between the eighteenth and it ents lifth year delery offers no well trained practitioner. Nevertheless the necessity to ceasurem sect on a res more frequently in the cases of elderly prim pairs particularly when it living child is greatly desired. E Godz. 8x. x (G)

Thoms H The Det minati n of F tal M tu ity in Utero 1 I Ol ( & C) 93 x 8 7

A stat stical study of a rel ti ely large number of newborn infants v as made to letermine the relation ship of the occiput frontal diameter to felal length and body weight and the importance of this diameter as an index of felal maturity. There is a different inthis diameter in the mollet and the unmolded head. The author concludes that it hen the occiput frontal diremeter is over 10 % the body is gift may be expected to exceed 2 500 gm.

F. I. CORNELL M. D.

at when a 11. Man man Downst of the state of the

Set alt r II line and Press (II r t pre is)  $1 + h f G = k + g_3 + c + 1 + 78$ 

This article is a review of 407 cases. I placents previous which were treated is at the Munich Nuner stay clanic may period of twenty two years. The incidence of the condition in 75 000 offel eners was 0.65 per cent. However, the author complications of pregnancy are observed most 12 quently in the large obsetence thospitals thus four may not be a true index of the frequency of low implantation of the placents. In Bastiana governmental statistics for the twenty inney per a 16 8 5 to 1907, the incidence was given as 5 of 44 per

Schnitzer first discusses the maternal mo talty In the 497 cases the total maternal mortal ty vas 9 2 per cent (46 deaths) 1s at is justifiable to sub tract the deaths of 3 1 omen who had an associated fatal condition which could not have been cured by any f em of therapy the corrected maternal me tality tas 8 2 per cent. In 26 of the 43 cases of death from placenta pravia the death was the result of exsanguination and 17 the result of infiction Central implantation of the placenta was about 3 times more frequent than partial implantation. In the cases of death from hamorrhage the blood loss before the patient's adm sion t the hospital as an important factor. Only 4 1 omen had severe hæm rehage after they entered the bosp tal the others ar we I in such poor condition that the I ves could not have been saved by any procedure Of the women dying from sepsis 8 had had the uterus packed before their adm ssion to the rln c Of thes 3 had fever then they we efrst seen Ame h d had no previous treatment. Of the 451 1 ho survi ed 119 (26 4 per cent) had fever and 38 (32 per cent) of these had had tamponade of the uterus before they arrived at the chinic

The fetal mortality was very high Of the god minants delivered 171 (34 2 per cent) er eborn dead and of those born alive 115 thed sooner or later after burth. The deaths of the latter be gasarchabile to burth traumant the shoolite infant mortality was 57 per cent. Of the infant which were bonde at 26 of 0 th ch were more created where dead at the time the mother entered the elimic or ded defore operation v. 3 performed. If these unifants i bed

could not have been saved by any method of treat ment and the infants weighing less than ooo gm are subtracted from the total number of infants which died the infant mortality is reduced to 26 8 per cent

The author regards metreurysis and tamponade as antiquated methods While the latter is of value for the temporary arrest of hæmorrbage it should not be employed longer than six hours. In the Munich clinic tamponade was used in 5 of the cases reviewed. One of the women so treated died of sepsis twelve days after spontaneous delivery Metreury sis was done in 12 cases without a maternal death but with 6 fetal deaths Iwo of 41 women who were delivered spontaneously died from uterine atony In this group of 58 cases the maternal mortality was only 5 per cent (3 deaths) but the infant mortality was 16 6 per cent (27 denths) In 46 case in which the membranes were ruptured artificially there were 2 deaths. The absolute mor tality was 43 per cent and the corrected mortality 22 per cent Of the 43 infants 23 survived and 23 died The total infant mortality was therefore 50 per cent However as 14 (30 5 per cent) of the in fants which died were dead at the time the mother entered the clinic and 5 weighed less than 2 000 gm the infant mortality may be reduced by 17 deaths and the corrected mortality was only 2, per cent In cases of partial placenta pravia artificial rupture of the membranes is associated with the lowest maternal mortality

Braxton Hicks 'ersion was used in \$6 case—18 of central placenta prawa 37 of partial placenta prawa and 3 of placenta prawa 37 of partial placenta prawa and 3 of placenta prawa is the type of which is not recorded. In this group the maternal mortal ity was 69 per cent (4 deaths). The puerpersum was febrile in 11 cases (20 7 per cent). Of the 60 infants 53 (88 3 per cent) died but as 9 died before delivery and 17 were non viable the infant mortality is reduced to \$6 per cent (4 deaths). In the 12 cases in which the version was done at the opportune time the maternal mortality was 12 per cent (5 deaths). The author believes that this high mortality refutes the generally accepted theory that version is the bet procedure in such cases. The absolute infant mortality was 78 6 per cent (33 deaths). \$5 of the 33 infants due before delivery and 14 weighed less then 2 000 gm. the corrected infant mortality was 33 per cent (14 deaths).

The procedure of choice among all methods is vaginal casariean section. At the Munch clinic anterior vaginal histerotomy is performed regard less of the site of attachment of the placenta. The factors of chief importunce in this operation are speed and a proper technique. The author emphasizes that if a faulty technique is used the thinned is microwith a faulty technique is used the thinned is microwith of the site of the

to o per cent as 1 of the women who died was suffer ing from far advanced tuberculosis and another from carcinoma of the rectum. The puerperium was febrile in 81 ca es (368 per cent). Of the 46 infants 235 (55 per cent) died but as 19 of those that died were dead before the operation and 67 weighted less than 2000 gm the corrected infant mortality was 20 per cent.

The author considers abdominal casarean section the most favorable method for mother and child According to the viewpoint at the Munich Clinic it is indicated only when the patient is referred to the surgeon because of hamorrhage during pregnancy or at the onset of labor As favorable results may be expected only if the birth canal is asentic, the indications for the procedure even by the extraperitoneal route are still further restricted. Of the cases re viewed the extraperitoneal operation was done in 35 and the intraperitoneal operation in 14 In both groups there were 4 deaths As the number of cases was small no conclusions as to the success or failure of the abdominal casarean section are possible. The absolute infant mortality was 28 per cent and the corrected mortality 8 per cent Of the 50 infants 2 were stillborn and 11 died in the clinic Of the latter 7 weighed less than 2 000 gm I died of weakness 2 were monsters and I died of pulmonary atelectasis

The author presents a table which summarizes the results of the methods most commonly used at the Munich Clinic

From his review Schnitzer draws the following conclusions

I In cases of partial placenta prævia with only slight hæmorthage artificial rupture of the mem branes is the most simple and least dangerous method for mother and child

method for mother and child

2 Braxton Hicks version should be employed
only when the infant is small and premature

3 Vaginal cosarean section may be performed in all types of cases in which delivery by the natural passages is possible

4 Abdominal cæsarean section sbould be per formed only in non infected cases—those of primparæ at term and especially those of elderly primparæ Bouvev (G)

Toth I Hemorrhage at the End of Pregnancy and Preceding Delivery with Special Consideration of the Treatment of Placenta Priewin (Ueber Blutungea am L de der Gravditaet und vor der Ceburt mit besonderer Beruckschigung der Tle apie de Plac nta prae in) O sikil 1930 n 824

Among the causes of hemorrhage during preg nance besides abortion are carcinoma cervical lacerations premature placental separation and placenta previa. In cases of inoper-fible carcinoma the author allows the pregnance to reach full term and then performs casarean section followed be supravagunal historectomy. The carcinomatous stumpi treated by roentgen and radium irradiation Good results are obtained in 7 per cent of the cases

In the etology of phreental separation the town muss of pregnancy phy a much more prominent role than is shown by statistics. As a result of the increa ed permeability of the blood vessels produced by the towns hemorrhage occurs in the decidua and often leads to only partial separation of the placent? Wher delivery numerous crater like in regularities ranging in size from that of an apple to that of a first and !!led with blood clots are visible on the maternal surface of the detached placenta bich is expulled immediately after the child.

In a series of 18418 deliveres at the Second Budapest Vaternity Clinic during the last tan years severe hemo thage due to premature placental separation occurred in 42 (0.3 per cent). Thirty five per cent of the vomen with such a hemorrhage were primiparts. The maternal mortality was oper cent (1.4 ceaths) and the fetal mortality do per cent (1.4 ceaths) and the fetal mortality do per

cent ( ? deaths)

The treatment of placenta præ 12 is determined by the sevent of the endition 1 or cases with a favorable p gnosis the author advi es only rupture of the membranes and for case 11th moderate anymia Braxton Highs version or the insertion of a bag I or the most severe ca es in which there has been frequent hamorrhage during pregnancy he advises casarean section even then the fetus is dead and in the cases of severely exsangumated multiparm he f lio is the cresarcan section by supra aginal hysterectomy lie rejects vaginal casa can section because in this procedure both the control of bleeding and the delivery of a living child a e diff cult Uterine packing should be done only unde the m st rigid reepsis and only as a tem no ary procedure to permit transportation to a

Alternity Clause in the period from 1910 by Statementy Clause in the period from 1910 by Opperent processing the period from 1910 by Opperent processing the period from 1910 by Opperent processing the period from 1910 by Opperent period from 1910 b

there were 7 material deaths from asmorthage and from sepsis. The total mortality was 7 2 per cent. In cases of central placenta prævia the maternal mortality was 16 per cent and the fetal mortality. Page 16 per cent. Hartstry (b)

Kermauner F The M nagement of Toxembs of
Pregnancy (B handlung der Schwa g s h ft
toxkosen) II kl II l r 930 1 137

Kermauner e cludes hyperemesis from the group of symptoms caused by pregnancy as from the re searches of his pupil Jungmann he has come to the conclusion that committing depends upon a preensing constitutional static dynamic nealness which progresses to a state of decompensation during pregnans. He has occasionally noted defective development of the hypophysical changes during pregnancy and therefore as unes that there is hormone deliciency which prevents detonification of the origination.

The high earbohydrate low protein low fat det which is seco nized as an important prophylactic measure again t gestational disorders i presented by kermauner during the latter half of pregnancy instead of from the very onset. For the reduction of ater and sodium chloride in cases of threatening eclampsia kermauner prescribes thyrod tablets (0 3 gm 3 times daily) alkalies (sodium bicarbon ate from t to a knife points) thy roun cathartics and Upone light stradiations. For the most senous cases he advises renesection and the intravenous administration of 5 per cent calcium chlorate is a result of this method of treatment eclampsia de teloped in only 2 of 155 cases of pre eclamp is in which series he included all eases with cidema and albuminuma Lermanner urges that determinations of the hormone output be made in all cases of pre ecla mosta

The maternal mortality in his cases of eclampsia s as 15 38 per cent In reviewing his statust es he regret that early delinery is usually impossible in the cases of eclamptic a omen because the patients do not enter the hospital soon enough Kermauner is of the opinion that elderly multipara are par ticularly endangered because the r care fr e eu t ence leads to increased metabolic d sorders as a result of increased functional demand. Only when dures a is definitely established during the puerperium i there evidence of recovers from eclampsia. Coint s n pregnant somen is classifed by Kermauner as a distrophs of pregnancy Treatment of this con dition with the rold extract or entrisol can appar ently be replace I by the well kros n dietary remme R I MAD (C)

Hilli D S II Dig of oftentracted Pells by tile Impression Method 5 g Gy & Ob ( 1030 1 852

Hills describes a modification of the Mueller maneuver to determine the relationship of the sue of the fetal bead at or near term to the sue of the fetal bead at or near term to the sue of the pet or inlet. Both hands are employed. The cetterni hand as placed above the breech of the baby and; sund decayls toward the maternal spine with the foreaim held parallel with the long at us of the mother. The camming finger of the other hand is smerted as the fetal to beater the manuage finger of the other hand is meretree. If the fetal is not beat the manuage finger of the other hand is meretree. If the fetal we have the sum of the sum of

LEO OLD GOLD TEIN M D

### LABOR AND ITS COMPLICATIONS

Cinglinger A and Pinsan R Dilatation of the Cervix Under Spinnl Amesthesia at Term (Au sujet de la dilatation du col de l'uterus à fin de grossesse sous rachianesthesie) Ginée et obst 1930 XVII 313

The authors review the results obtained by the Delmas method of dilating the cervix under spinal anaesthesia in twenty one cases in which labor was complicated by such conditions as a prolapse of the cord placenta prævia heart disease breech and transverse positions and uterine malformation. The method was successful in eleven cases and failed in ten. In most of the latter a serious tear occurred in the cervix and lower uterine segment or difficulty was experienced during version and extraction. One patient died from rupture of the uterus with hemorrhage. In the cases in which the cervix was completely effaced there was no difficulty. As a rule dilatation of the cervix and version and extraction have been facilitated by spinal anresthesia.

The authors believe that the Delmas method of artificial dilatation of the cerviv is preferable to others thus far employed but that the indications should be determined only by an experienced obstetrician Jacob I LLID WID

Vnux N W The Method of Delivery and End Results of 212 Cases of Occiput Posterior Posi tion 1 J Obsi & Gyn c 930 xx 78

The diagnosis of the position of the child should be made before the onset of labor if po sible and should he established definitely as early as possible after the onset of labor

In the case of a primipara with a moderately con tracted pelvis the possibility of occiput posterior position with difficult labor should be home in

Whatever the method of delivers selected in cases of occupit posterior position the attempt should be made to keep the ammotic sac intact and to conserve the patient's strength during the long first stage of labor Interferences not justified until the cervix is fully dilated and effaced and the fetal head is at or near the middlely.

In the discussion of this report Warson recommended changing the occiput posterior position to an occiput anterior position in the latter part of Diregnance.

FOULKROD stated that in at least 50 per cent of the cases of occiput posterior positions seen by him premature rupture of the membranes occurs before labor is begun

DICLINSON reported that he has tried to hmit the use of forceps rotation in occiput posterior positions because unskilled operators do considerable damage to the child and often also to the mother by this procedure

B LER stated that he favors non interference in occiput posterior positions when labor 1 progressing normally and there is no disproportion. He believes that interference is justified only when the progress of the head becomes completely arrested in the pelvis and then only when there is complete dilatation

E. L. Cornell M.D.

Wu L C Separation of the Symplysis Pubis Complicating Labor Nat Med J China 1930 xvi 768

The author reports three cases of separation of the symphysis pubs during labor. In the first case there was a funnel contraction of the pelvis with the head in a persistent occiput posterior position manual rotation failed and the separation resulted from forceps defivery. In the second case that of a para in the separation occurred spontaneously during a rapid second stage of labor. In the third case separation of the symphysis pulhs with fracture of the puble bone resulted from operative delivery and there were complicating injuries to the soft parts.

The literature is reviewed briefly The separation seldom occurs spontaneously in the majority of

cases it is due to operative delivery

The diagnoss is very easy During the operative delivery the operator usually hears an unusual noise followed by the sudden disappearance of the obstruction to the progress of the child Later examination reveals a palpable gap pain and tenderness and the legs are held in an everted and abducted position

The complication most feared is acute infection of the joint which may be accompanied by uretbritis cystitis acute pelvic inflammation abscess

formation or even general sensis

The treatment consists of providing firm support to the pelvic girdle by means of a tight hinder or bands of adhesive plaster applied round the hips.

The prognosis is good HARRY M NELSON M D.

#### PUERPERIUM AND ITS COMPLICATIONS

Trillat Michon and Ponthus Puerperal Suppurative Ovaritis (Les o antes uppurées puer péral s) Re franç de g; le ct d'obst 1930 v.

The authors report seven cases of ovarian abscess in which the lesions were limited to the ovary the tube being normal or at least permeable and free from suppuration

In suppurative ovarities there may be multiple abscesses an interstitual diffuse ovarities or a single abscesses a parenchi matous ovaritie. The tube is sometimes thickened and sclerosed or shous sedema and congestion but its lumen is permeable. The privilen is sometimes inflamed and on pressure on the tube a drop of pus may i sue from the ostium. This finding favors the hypothesis that the condition is due to an ascending infection. The broad ligal ment may be normal supple and thin or infiltrated thickened and bard. The microscopic lesions are those ordinarily caused by infection. The majority of ovarian abscesses are abscesses of the corpus

luteum After deli ery there are two follicles one old and one new Both may be affected by suppura

The micro organism most frequently responsible for puerperal suppurative ovarities is the streptococ cus Ovarian abscesses are most common after a puerperal infection or relyiperitoritis. The gone

coccus may be the cause but is more likely to in olve the tube as vell as the ovary In occasional cases the colon bacillus and the Loch bacillus is responsible and in exceptional cases the pneumo coccus or 1 berth a bacillus The pus may be sterile because of d sappearance of the micro organism

A possible route of invasion which is often fol lo ed by the streptococcus is the lymphatic route The gonococcus and the colon bacillus usually cause infection by propagation through the muco ? The integrity of the tube is explained best by the hy pothesis that the infection occurs by way of the

blood stream

The general symptoms of suppurative o atitis are not characteristic Palnation re eals at the side of the uterus a mass which i generally ligh hard indolent and regular. The mass has a fl t pebble share hereas the mass of a tubal collection 1 shaped more like an egg plant. In the majority of cases of suppur ti e ovaritis the clinical diagnosis is adne itis

The only treatment is surgical. The abdominal route s to be preferred. Hystercetomy should be performed if the les ons are e tensi e and bilateral and there is much need of drainage has a rule unilateral removal of the adne a is d ne The tube is usually removed ith the ovary as it is difficult to separate it. Ho ever the i leal conservati e operation is ablation of the o a valone. While anatomi eal conditions will often pe mt a c nser atme operation it must be b rne in mind that the in feeting mic o organism is often very virulent and e tensi e drainage may be neces ary. The Mikulicz dr in should be used whene er the lesion is high and the infect on is believed to be due to the st ept coccus

The mmed ate prognosis should be very guar led because on account f the possibility of gener h ed periton tis the operat in must be consi lere I serious The remote results are excelle t When only uni lateral remo al of the adness s done the function of the other ovary remains tact menstru tion persists unchanged and the voman may become

pregnant

#### MISCELLANEOUS

O ley W 11 F Th Org ni ation and Metlods of Practice of th Ea t End Mat mity Ho pital Ry St Md Lod 93

The East End Maternity Hospital London was established in 1884. Up to the end of rozo there were 51 487 deliveries in this institution 1 ith a ma ternal death rate of r 35 per 1 coo Since the year rozt the maternal death rate has been only o 68 per 1 000 This report is based on 10 376 deliveries

since 1925 Chinical methods not in accordance with modern teaching appear to have contributed to the good results

The hospital now contains 56 beds arranged in wards of from 3 to 8 beds and 1s under the direct management of a woman superintendent. The super intendent has a staff of 6 m dwives for the hospital and 2 for the district There are about 30 pupil midwives who do the nursing as part of their tr in ing The medical staff consists of 3 general practi tioners Control of the medical work is vested in the semor medical off cer and a general practitioner About 2 000 nomen are attended annually Rather more than half are admitted to the hospital and the remainder are attended in their bomes

1 revie of 10 176 of stetrical cases shows that it has been possible to reduce the maternal mortal ty by at least 75 per cent and to decrease the still birth rate and the number of ne natal deaths The women represented an unscleeted group of the child bearing women of the neighborhood and were not especially favored by social circumstances. There were no deaths from eclampsia nor among the patients who received antenatal care from hamorrhage. No patient ded from sepsis following normal labor and not I of the 4 233 women attended in their homes died from puerperal causes \s 6 of the 7 registered patients i ho died here seriously ill before labor began it appears that any further material reduction in the already low maternal mortality rate would depend upon improvement in the general health of the mother rather than upon increased knowledge or a change in the methods of practice in the hospital

The practice is based upon the development to the full extent of the prevents e and conservative aspects of midwifery Great care is e pended in obtaining the utmost efficiency from such well establishe I metho is as should be within the ability of every vell traine I med cal practit oner Stress is laid upon the importance of eare in breech deliveries the treatment of collapse in bemorrhage and a simple practicable and efficient antiseptic tech nique I arly exploration of the uterus in local sep 5 considered of great value Casarean section is done extremely sel lom Although adherence to the fundamental principles of the obstetrical art has proved of great importance this only partly explains the succ as obtained The factors believed to be cluefly responsible are the sympathetic co operation betteen the doctors mid tives and patients the carefully thought out organization and the keen interest taken in the work by all concerned

ROLADS CO ND

Paucot II The Influenc of He editary Syphilis of the Progenit rs on the Pr duer of C nceptin (if e d la syphi he edta d gen tus i poitd enepton) Ree f es c td bt os xxv 593

Two types of hereditary syphilis are di t ngu shed the irulent and the dystrophi one the result of the direct action of the spirochæte and the other the result of the action of the town However the limits between them can be only artificial since for the development of a dystrophy there must he

virulent activity at some time

The author investigated the function of reproduction in heredosyphilitics by studying families in which the mother the father or both parents had inherited syphilis The majority belonged to the first group The reproductive activity of five heredosyphilitic women none of whom had fewer than nine pregnancies is shown in tables. Abor-tions were numerous. Sometimes the reproductive career began with a series of miscarriages sometimes a series of miscarriages followed numerous full time pregnancies and sometimes full time pregnancies and miscarriages were alternated. The whole series of obstetrical stimata of acquired syphilis were present hydramnios congenital malformations monstrosities twinning voluminous placentæ and small atrophic placentæ Most of the women were young and of good physical appearance but some of them were disfigured. One presented thyroid hypertrophy exophthalmia typical dental changes and positive Hecht and Desmoulieres reactions Her children were very delicate and only two of them This case and two others demonstrate that there is no parallelism between the stigmata of inherited syphilis and the severity with which the product of conception is affected The progno sis in a given case cannot be determined but the incidence of fatalities (abortions stillborn infants and early deaths) among the descendants can be forecast In statistics published by the author in 1928 the mortality was 57 per cent Hereditary syphilis is more often fital to the descendants than acquired syphilis

The cases of two women with a heredosyphilite hushand are summarized in the tables. These women had four abortions in fifteen conceptions. Prematurity and the presence of stigmata and clinical signs were no less frequent than in the cases of maternal beredosyphilis. Twice the Wassermann reaction was positive. It may be concluded that hereditary syphilis is transmitted through the father to the second generation. The heredosyphilitic father may he vigorous and appear to be healthy.

When both parents have hereditary syphilis the results are disastrous. Furthmostic reported cases in which there were only four living children from fourteen pregnancies. In the first case studied by Paucot there were two successive abortions and a macerated stillborn fetus. The marriage of cousins brought out unmistakable signs of syphilis which had heen almost extinguished in the second generation. Paucot states that the biological reaction set up hy pre-piancy is more sensitive than any of the humoral reactions.

The results of treatment of the mother during pregnancy are very encouraging. The mortality is decreased at least 6 per cent. It is necessary to re sume treatment with each new pregnancy as abortions and stillbirths occur after pregnancies carned to term by the use of arsenicals and bismuth

Paucot believes that the spirochate passes through a larval form that of an ultravirus which escapes detection by methods of evamination now available While experimental proof is lacking clinical facts and serological findings do not disprove this hypothesis

# GENITO URINARY SURGERY

### ADRENAL KIDNEY AND URETER

Hartm n F A Aa on A II and Culp J F Tie Use of the tin in Addison's Di ase I d ru of ty 1930 x 438

In cases of Addisons die a e improvement has been noted after treatment with preparations of the whole adrenal gland or the cortex of the gland. Cor tin derived from adrenal cortex enables adrenalec tomized cats and rats to survive indefinitely

The authors reno t a case of Addison's disease thich this treate I successfully with cortin Twenty four hours after the patient a admi sion to the hos pital 5 ccm of extract we emjected intravenously and thirty minutes later to com tere given subcu Three and a half hours after the first injection three injections of to come each tere enten subcutaneously at interval of f rtv and seventy minutes Fou hours later additional extract being avadable to c.cm vere injected subcutaneously every hour until a total of 150 ccm had been in jected in the twenty four hour period Is soon as impro ement was noted the ortin was gradually reduced until only 20 c cm were giv in per twents four hours Experiments were then carried out to determine the dosage necessary to prevent relap es Under treatment with a dosage to meet I is require ments the patt at remained simptom free

Lener II M D

#### Shapiro I J and lescen L L Unto ard Results in Bilateral 13 lugraphy J U 1 930 1 621

The opaque ureteral catheter v as first used by Schmidt and Kolischer in root and the use of an opaque of atton to outlin the kidnes pelvis nas introduced by Veelker and von Lichtenherg in 1906. The first opaque solution employed was collargol but as this a extremely foruc it was soon replaced by other luctions su has the trum mitrae sohum bromide and sodium nodde. At the present time sod um nod de s used most frequently because its toucity is 1) v and it casts a dense shadow on the X-ray plate.

The introdu tion of non torus solutions for ppelography has given rise to much discussion as to whether pyelography may be done simultaneously on both k dietys. Low ley Thomas and Li endrath perform pyelography on b th kindneys at the same time almost routinely but Young keyes and Brasch are opposed to this practice.

The author's report five cases in which leath occurred after bilateral pyelog aphy and was directly attributable to it. The opaque med um used was a 15 per cent solution of thorium nitrate in two case a 25 per cent solution of so frum horonide in one

case and a 12 per cent solution of sodium od de in two cases In all of the cases the examination was followed by anima. In four cases the anima began immediatels and in one case on the suth day. Postmortem examinations were made in four cases. In two it showed extensive infection. In the two others and probably all on the case in which postmortem examination is as not made the cause of death was probably the touc action of the medium.

In conclusion the authors state that as pyelog raphy is a diagnostic procedure it should not be as certified with any mortality. They therefore be be est should be done on only one kidney at a time.

CLAUDE D. HOLMES M.D.

Gauthler and Class The Gastro-Intestinal Type of Hydroneph costs (Lh dronephrose & f m gat 1 to al) I diel milisch 9 a xxx xxx

Histonephrous is sometimes manifested o ly by gasten intestinal symptoms due to refler disturb an es of the s cretion of the stomach and intestinas from the renal d stention compression or lanking of the inte times from sudden variations in the size of the kidnes and urnary insufficiency from gradual attorphy of the renal parenchymu. There may be dispersion into mithout para and ith or without secre tory disturbances or a syndrome simulating that of mithout more intercollists disentery appendictus sigmodutes or a gall haldder condition. Therefore in the day noise of cases presenting such symptoms the po subility of latent hydronephrosis shoulf be borden in mind. Indispensable and in the diagnosis of latent hydronephrosis are ursetral eartherenation and py pelography.

The authors report five cases of latest hydro nephrosis which was associated with gastro inte t nal symptoms

Case 1 42 that of a woman thirt six years old who for it the years had been suffering from abdominal pains which had been considered of dispeptic origin. At laparotomy, the stomach was found normal. Later hadonesphrosis of the left kidney is disclosed by py elograph. Nephrectomy resulted in cure of the dispept c 3 mptoms.

The second case was that of a xoman there he pears of age who for eight pears had suffered from attacks of prin in the right hypochondriam associated with womiting and had been treated for gastine disturbances. Ultimately polyuna who poliaiums developed and as elling appeared in the right lumbar region. Examination of the unnary tract then disclosed hydronephrosis of the right kidney. Nephrectomy was filter it hy unevertual recovery.

The third patient was a seventeen year old girl who had had attacks of abdominal pain vomiting constipation and anorexia ever since the age of six months

The urine showed oo abnormalities

Pydography duclo ed hydronephrosis of the left

kidney Nephrectomy was done

The fourth case was that of a man thurty one years old who for ten years had suffered from ah dominal distress which at various times had heen diagnosed as due to gastritis aerophagy enteritis and appendictis. During the last attack however there was hæmaturis. Pyelography then demon strated the preseoce of hydronephrosis of the right kidney. After nephrectomy the dyspeptics; mptoms ceased

The fifth case was that of a woman of twenty two years who for ten years had had unnary disturb ances associated with intestinal colic and alternating coostipation and diarrhora Examination of the unnary tract disclosed an infected hydronephrosis of the right kidney. Six months after nephrectomy the patient was free from all dyspeptic 3s improms

JACOB E KLEIN M D

Jasienski So Called Tuberculous Nephritis and Tuberculous Bacillarla (De la néphrite dite tubérculeuse et de la bacter u le tubérculeuse)

J d'urol méd t chir 930 xxx 245

The possibility that tuberculous inflammation of the kidneys may occur without tubercle formation was first suggested in France about forty years ago but is still disputed. Some urologists speak of specific and non specific lesions of the kidneys in tuberculous subjects. Others refuse to make this distinction hecause occasionally following nephrectomy no tubercles are found although the lesions were doubtless produced by the tubercle hacilli which were present in the urine

Nephritis is an exceptional complication of pul monary tuberculosis although virulent hacilih are often excreted in the union. In experiments carried out on guinea pigs the organisms have heen found in the apparent'y non specific lesions of the Lidney Analogous lesions may be seen in certain cases of

phthisis

To explain the etiology of tuberculous nephritis two theories have been advanced. Chauffard at tributes the lesions to toxins. Others believe they are due to the local action of the bacill. The latter view is supported by the experiments of Bernard and Solomon who by injections of hacill, produced exudative lesions of the kidney approximating acute interstitial nephritis. In some of the inditrating cells tubercle bacilli could occasionally he demon strated.

As this work had never been confirmed or repeated the author carried out a series of injections of living and dead organisms and of filtrates. It was never possible to demonstrate bacilli in the kidneys but by all three methods degenerative changes or curred in the renal tubules particularly in the ascending loop of Heale It is generally believed that the normal kidney can excrete tubercle bacilli without suffering thereby but most urologists are of the opinion that the kid ney hecomes permeable because of other lesions. In fact many case reports reveal a non specific in flammatory process such as nephrolithiasis tumor or by dronephrosis. However in another group of cases the kidneys show only nephritis.

When one kidney is tuberculous the other kidney may excrete bacilli and cease to do so after removal of the tuberculous kidney. The state of the healthy kidney cannot be determined as conclusions are rendered uncertain by the possibility of technical errors and the healing of minor lesions in that

Lidney

The differential diagnosis of renal tuberculosis and tuberculous nephritis is of course important from the surgical standpoint. As a rule the presence of large numbers of pus cells and tuber le bacilli in the urine from one kidney is a sufficient indication of surgical renal tuberculosis. However a smill number may be present in tuberculosis ephritis a lesion which probably rarely evolves into a surgical tuberculosis. Hence there appears at present to be no certain method of making a distinction Renal function tests are of little value as their results do not always parallel the amount of kidney destruction and the presence of bladder lesions not diagnostic hecause such lesions may be present in the absence of tuberculosis.

The author concludes that the ideal operation nephrectomy in the initial stage of a renal tuber culosis can be performed only at the risk of re moving a kidney which is involved merely by an entirely curable nephritis

ALBERT F DE GROAT M D

Lino G Serous Cysts of the kidney (Delle cisti sierose del rene) inn tal di cl tr 1930 x 86

The author believes that renal cysts and cystic kidney repr sent different stages of the same condition and that hæmatic cysts are serous cysts with

secondary hæmorrhage

He reports a case of multilocular cyst in a woman forty three years of age A diagnosis of paratenal cyst was made but at operation the slightly most habe hard swelling in the flank was found to be a large multilocular cyst with oumerous oon communicating, compartments of varying size which is ovived the hack of the kidney. When the cyst was punctured with a trocar turbid yellow fluid with a urmary odor was obtained. After partial evacuation nephrectomy was performed. The would was then sutured in layers and a drain ons rted.

The extirpated imass was lobulated ten e elastic and furrowed with veins. It had a broad base on the dorsal surface of the kidney. The capsule of the kidney extended over it. Cros section revealed a cystic and a solid zone. The cystic zone consisted of numerous non communicating compartments filled with fluid and separated fibrous septa. The solid zone was renal tissue. Markin J DiCola M D

This discussion is based on ninely four cancers and e ghteen adenomate of the kidney in adults. The cancers were of three types—a nodular an infiltrating and a cystic type. The macroscopic and microscopic descriptions of the three types of cancer and of the adenomata are profusely illustrated at roentgenograms photographs and photomicro graphs.

h tschmer II L Lelomy ma of the hidney

J U l 930 x v 617

Kretschmer reports a case of letomyoma of the kidney and cites a few cases reported by others. He st tes that these tumo is may be divided into two groups those which are small produce no symptoms and are discovered only it autopsy and those which are large and cause symptoms necessital incoperation

The case reported by the author was that of a woman si ty four years of age who had had a gastne resection for carcinoma. Death occurred three years later. At autopsy a small gray nodule which proved to be letony oma was found in the right kidney.

H RY L SINE RD MD

Dogliotti A M and Mai no M The inn rvation of the kidney and Functional Ope at in on the kidney D nervation 1 fairt all Sympath ctomy and Decapsulation (in r nale d t ti fiz n! sir L one d ot one p t d cpu l l l l l l l l d b go oo oo

The authors re new our kno ledge of the anatomy and funct n of the nerves of the kidney and set forth their theory that partial interruption of the nerves leading to the kidney is sufficent to stop renal pain

In st dies of the vasomotor function of the renal netves n vperiments on fifty two dogs they found vasoes structor fibers a smaller number of vaso dilator fibers and a double mechanism of vasomotor egulation—direct regulation through the kidney erves and indirect regulation through changes in the general blood pressu e

In experiments on ten dogs they found that re generation of the nerves of the kidney began promptly after the nerve were sect oned and as somplete after from four to six months. The regen eration was demonstrated not only by the anatomic cal find ngs but also by oncomet ic measurements

In a study of the function I the ladney after total deneration which they made on eight dogs determin ng variations in azotæmia and the sec e ton of ur ne they noted a decrease in the e cretory cap city of the ladney after the denervation when lasted for from three to six months. At the end of that time e cret n was normal or nearly normal Partial denervation was found to sufficient to stop kid ney pain and to cause less disturbance of renal function than total denervation.

A study of renal function after simple pe arten 1 sympathectoring which was carried out by similar methods on two dogs showed that this operation was followed by an increase in the functional capacity of the kidney for one or two months and an increase in the amount of unne without any special change in the composition of the unner or the degree of azotzemis.

In studies of the effect of decapsulation on twenty three dogs it was found that the capsule re appeared in from six to eight days The regenerated capsule s as less d stensible than the normal capsule after about seven months it was about one fourth less distensible No collateral circulation developed and the normal transcapsular anastomoses were de stroyed Separate injection of the arte ial and e nous systems with the same pressure showed that for several days after the decapsulation there as distention with an increase in the number of small injectable vessels. By the method of artific al circu lation it vas found that the decapsul tion was fol los ed by an increase in the circulation high became apparent after from six to eight days and reached its maximum after from fifteen to twenty days. At the end of that time the circulation returned to normal Functional metho ls (decaps lation a d de terminat one of the variations in azotæmia and the excretion of urine) sho ed improvement in the func tion of the kidney similar to that follo ing penarten 1 sympathectomy with in some cases a decrease i TUDE Y G MO GA M D the azotæmia

Waiters W and Wight W Dp tl n n Sollt ry kldneys and U ete Repo t f F fty Two Cases S r Gy c & Ob t 93 l 836

A successful result from ureteropy eloneostomy for the relief of anuma with hydronephrouss due to complete obstruction at the ureteropel is quinture of a solitary kidney and the successful outcome of pelv of inthotomy in to cases of solitary kidney led the authors to review the fifty to cases in which ope a tom was performed on a sol tary kidney or ureter it the Mayo Clinic in the period fom November 1911 to January 1930. The purpose of there e vas to determine the indications risk and results of operations on the solitary kid ey or u eter

Operation on a solitary kidney as do e to ce a soliten on males as on females and in 75 pr cent of the cases it was done in the third or fourth decade of Ife Multiple operatin so in the solt ry kidney were done in six cases with a successful result in all. In four of these they were do e for recurrent stone. In forty fit e of the fifty 1 o case to operation was performed for the remo al furnary calcult and in see in for condition so other than stone. Of the forty five cases of lith as the stone was removed from the kid even thirty four and from the urier in eleven.

In the c ses report d in the literature a d those treated at the Mayo Cl nic the mort lty f ope a t on on the solitary kidney for the removal fst c was approximately 13 per ce t The operative risk in these cases was due to delay during which there was a decrease in renal and renal infection occurred This is evident from the cases of six patients who died following the operation. In all of these cases renal function was abnormally low and the unne contained a maximal amount of pus Delay in operating on a solitary kidney until urinary obstruction with anuria had occurred definitely increased the mortality of operation The risk of operation on the solitary kidney is dependent on the function of the kidney and the degree of infection. In cases of lithiasis the results are dependent somewhat on the size and number of the stones When the stone or stones are large the possibility of a persisting urmary fistula must be considered

Reports in the literature and the cases treated at the Mayo Clinic indicate that when renal function is satisfactory and there is no unusual infection multiple operations can be safely undertaken on a solitary kidney with the expectation of satisfactory results. Although the prognosis may seem to be almost hopeless because of anuria and impending uremia due to delay operation should be under taken as recovery has occurred under such cir.

cumstances

Walters and Wright have been able to find in the literature fewer than ten cases in which multiple operations were done on a solitary kidney. In all of them as in the six reported in this article recovery, resulted. This fact bears out the early experimental observation of Tuffier and the clinical observations of Babccck and W. J. Mayo that not only life but also working power can be maintained with as httle as balf a normal kidney.

# BLADDER URETHRA AND PENIS

Hunner G L Neurosis of the Bladder J Urol

In certain cases of constant bladder discomfort pain in the lower part of the abdomen and pelvis and frequency of urmation or day and night in continence urmalysis is negative but cystoscopy reveals urethritis and trigonitis. The inflammation may be due to genorrheca or a focal infection or both. In cases in which it is of gonorrhecal origin local applications of a 3 to 10 per cent solution of silver nitrate give excellent results. In those in which it is due to focal infection only removal of the focus of infection will give relief

Another cause of constant bladder discomfort is clause ulcer of the bladder. Hunner usually tells patients with such a lesson that they must be content with a method that brings reasonable comfort through continued application. The instillation of 10 or of a 1 500 solution of silver intrate twice a week may be sufficient. The direct application of 10 per cent solution of silver intrate to the ulcer may give relief for from four to six weeks. When simpler methods fail fullguration under complete narcosis may be done. If the lesson is found to be quite limited when the bladder is open it may becauter.

ized with the electrocautery under local an esthesia Resection has been given up by Hunner as the in cidence of recurrence is 42 per cent

A third condition which may cause bladder dis comfort is stricture of the ureter. Of 100 patients with ureteral stricture 71 had bladder symptoms In 33 cases the bladder symptoms were severe and in 38 they were mild Many of the patients had severe hladder symptoms during attacks of renal pain due to partial or complete closure of the strictured area Of 100 cases of ureteritis infiltra tion of the urethra was found in 85 Of 127 cases of elusive ulcer ureteral stricture was found in 60 In cases of this type it is Hunner's practice to treat the ureteral stricture first then eliminate any focus of infection and finally if relief has not been ob tained to treat the bladder lesion. Of more than 250 cases of partial or complete urinary incontinence Hunner found ureteral stricture to be the cause in the vast majority In this condition he has obtained remarkable results by restoring good kidney drain age and eliminating distant foci of infection cases of nocturnal incontinence in children excellent results have been obtained from tonsillectomy

Hunner recently saw for the first time a case of malignancy of the bladder developing in an ulcer area. He reports this case in detail

ANDREW MCVALLY M D

Pieri G Clinical Contributions on the Surgery of the Sympathetic Nervous System The Treat ment of Tuberculous Cystitis (Contribut clinici alla chirutgia del sistema nervosa vegetativo) A chi tid di di 7 1930 TVII 454

The author believes that in the present state of our knowledge on the physiology of the nerve supply of the bladder it is justifiable in the treatment of chronic painful cystitis especially tuberculous cystitis to perform a resection of the presacral nerve as was done by him for the first time in February 1926 Besides relieving the pain this operation may exert a favorable influence also on the function of the bladder and perhaps a biological effect on the tuberculous process by reason of the vascoliation it produces

In some cases the resection of the presacral nerve might be advantageously supplemented by bilateral section of the sympathetic cord at the level of the fifth lumbar vertebra and ramsection of the first sacral gangla If there are painful lesions of the posterior uretbra the pudendal nerves may be hlocked with alcohol

Pieri reports three cases treated by surgery of the sympathetic nervous system

# GENITAL ORGANS

Lehmann J The Origin of Tuberculosis in the Male Genital Organs (Zur Entstehung der Tuberkulose der maennl chen Geschlechtsorgane) 1r I f palk 1 1 1930 cel vvii 537

The studies of a number of investigators have led to the conclusion that the anatomically intact testicle

or epididymis seminal vesicles and prostate of a man suffering from chronic pulmonary tuberculosis can excrete tubercle bacilly. They have led also to the conception of a bacillary eatarrh (Simmonds) Against these conclus ons are the findings of another group of investigators At a meeting of the German Pathological Society at Vienna in 1929 Berblinger reported autopsy findings which he maintained rejuted the theory of the excretion of tuberele bacilli through intact glandular epithelium and also the occurrence of a bacillary catarrh At the suggestion of Berblinger the author systematically examined all parts of the genital organs of every corpse coming to autops, in which a tuberculous focus was found in the lun s To date he has examined in this way 121 bodies 86 those of males and 35 those of females In this article be reports the findin s in the 86 male cadavers

The cases are divided into 3 groups (r) those of the lungs and the adjacent h mph nodes in which no harmatogenic metastasis could be demonstrated at autopsy (2) those in which autopsy delosed an older organic metastasis of harmatogenic organ is between than in the gential organs and (3) those of miliary tuberculosis. As tuberele h cilb were not found any of the specimens the author feels justified in concluding that the p sence of hacilli in anatomically unchanged sexual organs and the dee elopment of a bacillary

catarrh must be extremely rare if they occur at all Most investigators have assumed that the first metastasis in the genital organs develops hy ay of the blood stream but as none of them could make a v definite statement as to the location of the primary genital focus their reports were based on assumptions. In order to determine the beginning of the tuberculous focus Sussig examined the mac roseopic lly unchanged sexual organs of 13 males who had died of recent miliary tuberculosis f und that the first changes developing by way of the blood stream a einterstitial perivascul r tuber eles Tub cle bacilli in the lumina of the eanaliculi were found only in cases in which the rupture of an inte st ti l tubercle into the lumen was demonstrable The author was able to confirm the findings of Sussie He belie e that he has demonstrated also a special predisposition of the p ostate and seminal ves eles to tuber ulos s

Nume ous reports have been published with re a dt to the pinary genital locali atton of the tube culous f cus and whethe its spread is testifugal or testipet 1. Expect ally surgeons have regarded the epiddymis as the fir t is to of tubercul is of the male sexual it of to Only after von Baumgarten proved that tuberculos is may spread also in a direct on opposite the physiological cu tent of secretion did the testipetal spread of tuberculosis of the sexual organiserce ve much attention. Subsequently the view that tuberculosis of the epiddymis is usually of secondary genital origin became more widely accepted. In the author's rigidance is the period of tuberculosis of the production of the

the development of the primary genital focus could not be determined with certainty. However the examinations of the ind vidual sexual organs were carned out so systematically that an origin from bacillary excretion from the tetis or epididymis must be rejected.

1 combination of tuberculos s of the kidneys and the male sexual organs may occur but interd pendence of the two eon litions is doubtful

Among 17 eases of tuberculous changes in the sexual tract which are cited the prostate was in solved in 13 and 1 of the seminal se cles was involved in to In all of the eases it could be shown definitely that the original focus was in either the prostate or the seminal ve icle. In every case in which the tuberculous focus had runtured into the lumen of the involved seminal vesicle there was disseminat on to aid the testis. From these find ags it is evident that the prostate and seminal vesicles are frequently affected by tube culos s. A special predisposition of these organs : therefore suggested The author plans to carry out other investigat ons to determine a hether the frequent involvement of the prostate and seminal vesicles by tubercul s s may be dependent upon their vascular supply or the size of the in lividual arteries

Castration is merely a palliative operation which removes the secondary genital focus in the epi d dvms. If it were possible to diagnose tubereulous of the seminal vesseles by careful of insel examinations the extripation of an extrapel exection about to em long of one or both vasa deferenta mght render castration unpnecessary. ZLLMER (Z)

Grinda J P Calcult of the Prost te (Le cal l de 1 pot 1) J d l ld 1 ch 93 xx

Prostatic calcult have been An orn for a long time having been first described by Donatis in 1358 Although later stud ed by Louis Morg gan Ci iak velpeau and Bernard knowledge of the vainety of concretion increased slowly. In 1907 Pasteau and Guyon very completely established the patho genesis varieties and locations of prostatic calcult but lor a long time thereafter these stones we eigenored in the tertbooks. Cases reported in the literature were cited as ratites and no distinction was drawn between urethral stones and tr.e. prostatic calcult.

With more general zed use of the \ray the cases reported became more numerous To the 173 known in 1918 k-retchmer added 73 cases in 926 A distinction must be drawn between calcult f

the prostate urethra and those of the gland Most urethral calcula are formed higher in the urnary tract and in their mig ation are arrested by the narrow membranous urethra. They are usually single and always few. Increasing in s. e. they may cretend into the bladder assuming an hour glass form. Again they may extend into the membra ous urethra or a prostatic diverticulum. The cston are composed of u ares or phosphates. The symp

toms are often little characteristic and frequently do not appear until late as the stone may be tol erated for a long time Most frequent are dysuria with burning in the glans penis the passage of sand and terminal hæmaturia Genital symptoms (im potence painful ejaculation hæmospermia priap ism) are rare Rectal examination is usually negative The urine may contain pus and blood

The diagnosis is made with a bougie a boule The instrument encounters a hard rough obstacle By I ray examination number and exact site of the calculi can he determined. The stones are always distinctly median with occasional lateral prolonga tions into a diverticulum. The X ray will reveal also other stones which frequently are present in

the bladder ureters or kidneys

The calculi of the prostate are very different. It is generally agreed that they form about the small concretions normally found in the prostatic gland and are always dependent upon chronic prostatitis

Two types must be distinguished Those of the most common type develop in diverticula which have followed the evacuation of one or more ab scesses into the urethra. Such calcult may reach a considerable size and are always in communication with the urethra Those of the other type the true prostatic calculi form in the depth of the gland and do not communicate primarily with the urethra The chief factor in their formation is chronic in

flammation Their size varies from that of a buck shot to that of a cherry stone Their number is often large sometimes reaching 200

Prostatic calculi are encountered under various circumstances-at autops; in the course of routine roentgenography and during the enucleation of an adenoma In the last instance they are found in the compressed gland forming the capsule of the

In the diagnosis of stones which have formed in prostatic diverticula the MacCarthy cysto urethro

scope is of great aid

The treatment of calcul of the prostatic urethra is operative. The smaller stones can be removed by the prerectal perincal route. When there is an extension into the bladder or vesical or ureteral stones are present the suprapulic route should be

True prostatic calculi offer a different problem In the past most surgeons were satisfied to remove them hy the perincal route but because of the probability of recurrence suprapulic prostatectomy is now believed preferable. The enucleation is difficult hecause there is no line of cleavage as in an intraglandular adenoma but it has the advan tage of heing radical and as done hy Pasteau Marion Maisonnet Michon and others it has given excellent immediate and late results

ALBERT F DE GROAT M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

## CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Var la M E Tle Circulation of the Bone Marrow and Consid rations of Certain Problems of Histophysiology (C c i c da d i médul de y s d c o c s bre igu s p bi m s d h to i l gi ) R d L i im 93 538

The author states that since Neumann in 1869 published bis first contribution on the cytopoetuc function of the bone marrow numerous articles on the bistology of the bone marrow have appeared but the majority of the investigations dealt with the vytology and ontogenesis of the blood cells rather than the structure of the bone marrow considered as an origin.

In this article Varela reports in estigations in which he studied especially the topography and structure of the blood essels in the diaphy-seal marrow

In the histological study of the sinusoid essels of the bone mar ow be used the method of saturation of the vancular endothelium in tiro 1 th a substance such as Chinese ink, which could be easily recognized in sections. Sucher procedure employed was the ind ction of passi e congestion by ligation of the vens a method which is better than the injection of gel to The combination of these two methods and Mallory staining of fixed sections gave him the best results. The experimental animals were rabbits.

The author concludes from his find ngs that the vascul network of the bone marrow is completely closed but that perhaps it occasionally opens at certain pot its to allo the entrince into the circula to not ne crythrocytes and platelets since these elements cannot enter by dispedesis

Magliulo A Pot Trum tic Os ificati n
Muscl's (C tributo ll t d dell f a
m ol pott um tch) 3pr t l 93

Fourten cases of ossification of muscle follo in trauma are rep ted the nontigenograms and the bistopathology of a case of oss heaton of the bra chails anticus muscle following posteror dislocation of the elbow is discussed i det il. The author believes that this form of ossification is a direct ossification. While be admits that completely differentiated cells of the interfascicular connectic e tissue may undergo metaplasia taking on an embryonic character and then develop ag into bone tissue he suggests the possibility that a process of ossification may originate directly from embryonic connective tissue cells which act as osteoblasts produce bone timelle and become differentiated into hone cells In the lessons under discussion there is almost al ways an effusion of blood which contributes to the deposition of calcium thereby furni hing material for the young connective tissue in its development into hone. However the suthor makes a distinct in between the simple calcification of barmatomata and true ossification.

The ossif cations should be exc sed but not until the process is definitely complete. When oss heation is complete a f brows a fill usually forms around the bone and isolates it from the surrounding muscle It can then be easily removed. Some surgeo s advise delaying the operation for a year after the begin aming of the ossification but in the author's opin on the time at which the bone formation should be removed twares in different cases. If the ossification is attached to bone the periosteum and a part of the cortex at the site of implantation should be removed.

ith it. Care should be taken to prevent injury of the muscle and to control bleeding in order that a secondary harmatoma may not form. Some sur geons add use leaving the cavity open and tamponing but in the authors opinion this is not necessary in all cases. Is a rule the eavity can be closed around small horsehard drains a hich may be removed after a fe. days. If careful asepsas is observed there will be no recurrence. \text{\text{\text{tax}}} \text{\

C nett J B So Called Subneromial B sitis
S f Cl \ 1/ t 93 1309

The author states that the condition usually designated as subactomial bursit is is tery common and presents a distinct of incal picture but is often not recognized by the general practitioner. It presence should be considered in every case of a ute or chrone team and stiffness of the shoulder. There is often a brackful neuralize extending to the elbow or to the hand and fingers. Subveronnal bursits it the most common cause of brackful neuralizes.

In cases of brachal neuralizi or neurits due to other causes the arm can be fully abducted at least passively if not actively. In burs its abduction and internal rotation of the arm are always limited or prinful or both. Is a rule the most severe pain i located o er the outer aspect of the lower part of the delto dimuscle and an area of tendemes is found at a point just beneath the anterior edge of the acromion process.

In the greal major ty of cases presenting marked symptoms a calcareous deposit sp esent at the site of the localized tenderness. This deposit can be sho in by rontigenograms taken stereoscop cally or with a treme inward and extre ne outward rotation of the humerus. Frequently a calcareous deposit vill be found also in the other shoulder. The deposit is all any outside the burns beneath its

floor The author believes that the lesion grying rise to the symptoms is in the tendon rather than in the hursa because at operation the hursa is often

found to be entirely normal

The treatment may be either operative or non operative The author discusses the non operative treatment Opiates are given for the control of the pain The arm is at first held in moderate abduction by a large pillow placed between the arm and the side of the chest with the patient in the recumbent position The arm is then brought into wider ah The abduction treatment is carried out twice a day After two or three weeks of this treat ment the acute pain usually ceases

The author believes that spontaneous absorption of a deposit occurs only after an acute attack. While diathermy usually eases the pain temporarily he is convinced that it does not hasten absorption as he has tried it in cases of symptomless deposits H EARLE CONWELL M D

without henefit

Nove Josserand and Pouzet Flall Scapula Fixed by Bolting with the Rib (Omoplate ballante fixée par verrouillage costal) Lyon chr 1930 xxvii 631

The case reported was that of a girl of twenty years At the age of thirteen years the patient noticed that the movements of abduction of the shoulders above the horizontal were weak and that on these movements the scapulæ had a tendency to rise When she was seen by the authors the scapulæ had risen so that their upper angles cut the line of the trapezius and their spinal horder was 11 cm from the spine Looked at from in front the shoul ders projected forward the clavicles formed a trans verse protruding bar and the supraclavicular tri angles were very deep. The right arm could be elevated in abduction only 60 degrees. In the move ment of abduction the scapula rose the upper border moving upward and outward until it passed the line of the trapezius in a very characteristic manner and the lower angle of the scapula moved a little inward Functional examination disclosed paralysis of the trapezius erratus magnus and rhomboid muscles

An incision was made along the spinal border of the scapula and the rih at the level of the spine of the scapula was denuded for a distance of 8 cm and sectioned as far out as possible. A hole was then drilled beneath the spine of the scapula and the rih passed into it like a holt. The inner border of the scapula was fixed to the spinous processes with two chromicized catgut sutures and the patient put on a plaster bed. After two weeks a plaster corset was applied with the arm in abduction at oo degrees When the cast was removed two months later the scapula was fixed it did not move up or down Two months later the patient returned and asked to have the other side operated upon The movements of the arm were then very much freer and the scapula did move outward as before

The authors have performed the operation de scribed in two cases. They state that it is physio logical and effective AUDREY G MORGAN VI D

Ostergaard C Osteochondritis Dissecans of the Elbow (O teochondritis dissecans cubiti) Ugeskr f Læger 1030 11 716

Next to the knee joint the elbow joint is the most common site of joint mice The author reports five cases of elhow disease in young persons which was not preceded by trauma Roentgen examination disclosed osteochondritis dissecans of the head of the humerus Extension of the joint was decreased from 10 to 20 degrees and there was swelling of the tissues in the region of the posterior aspect of the noint lateral to the olecranon

In deciding on the treatment of this well defined joint disturbance the surgeon must hear in mind the tendency of the condition to become cured spontaneously and the possibility that operation may not prevent the development of secondary arthritis deformans Operation is indicated when there are foreign hodies causing symptoms but must be as simple as possible As long as the foreign bodies do not cause symptoms operation may be delayed Protective therapy of the joint is advisable HAAGEN (Z)

Littleichn C W B Low Backache J C llege Strg Australasia 1930 111 of

The intrinsic causes of low backache are given by the author as tuberculous syphilitic and sentic in fection neoplasms fibrositis and arthritis due to towns and acute and chronic trauma. The site of the lesion may he in the musculotendinous functions or in the joints and ligaments

The author discusses the diagnosis and treatment of sacro iliac subluvation sacro iliac strain with subsequent arthritis lumhosacral subluvation an terior lumbosacral strain lateral lumbosacral strain with arthritis and lumbosacral transverse arthritis

He states that a large number of industrial and other cases of low hackache are prohably due to strains of the joints of the lower spine The disability is prolonged by delay of proper treatment toxic absorption and faulty posture. When appropriate treatment is given early it usually yields good results In the majority of later cases improvement may be obtained by manipulation postural ever cises removal of toxic foci temporary fixation in plaster and operative fixation

H EARLE CONWELL M D

Zanoli R Scoliosis and Myelitis from Compres sion (Scol osi e mieliti da compressione) Chr d org 1 dt mon men o 1930 X 291

In recent years a spinal syndrome associated with severe scoliosis of the dorsal spine has been reported Only twelve authentic cases are on record The author reviews these cases and three others in which the diagnosis was less certain and adds two cases of his o vn

Zanoli s first case was that of a girl who at the age of eleven years had fallen 50 meters from a precipice fracturing the seventh dorsal vertebra Paralysis of the sphincters persisted for about a month and a slight gibbus appeared at the middle of the dorsal spine After about two months the girl recovered and was well for two years but during this time the eshbus increased and an increasing scolosis conver to the right appeared in the middle of the dorsal snine When the girl was fourteen years of age spastic paraplegia developed. When she was first seen by the author the paraplegia bad been present for a year The findings of examination of the spinal fluid and of my clography with broaded the disorders of motility and sensation and the reflexes suggested compression of the cord in the eighth ninth and tenth segments At operation the dural sac was found flattened over the angle of the gibbus. The operation resulted in flaccid paraplegia

The second case was that of a noman of thirts years y ho in infancy ha I had rickets which resulted in progressively increasing dorsal scohosis. When the noman as thirty years of age she began to suffer from pain and fever associated with nealness of the less amostrophia and abolition of the Schilles tendon reflex. Examination of the sound fluid and my elography disclosed compress on of the conus terminalis below the apex of the scol osis On laminectoms absence of pulsation of the dural sac in the lumbar segment was noted and the cord pro truded with force when the dura was incised inflammation or tumor was found. After the onera tion the patient was able to walk without diff culty but she still had an evening rise of temperature and compla ned of slight intermittent pain. This is the only case in which the condition was associated with pain and fever and occurred after the eighteenth year of age

In the diagnosis it is necessary to rule out in tramedullary and extramedullary tumors and tuber culous spondylitis. Tumor is ruled out by the al most constant absence of pain and the symmetrical d stribution of the sp nal symptoms Pott s disease is ruled out by the absence of signs of destruction and of med astinal abscesses in the roentgenogram and by the extreme scoliosis and torsion

The clinical symptoms the examination of the spinal flu 1 and the findings of myelographs and operation show that the myelitis is caused by com p ession This is proved also by the results of simple decompressive lam nectomy in cases which are not too far advanced The only treatment offer ng sny hope of a suc essful outcome is decompressive AUDRLY G MORGAN M D laminectomy

Jepson P N and B av E A The Manipulati e T eatm at f Gl onic A thritis of the Spin J S g 93

After discussing the history and etiology of arthritis of the spine the authors report their method of correcting the deformities incident to this condi-

In the authors treatment general anasthes a is induced and the pat ent turned on his abdomen Then with one assistant holding each lower extrem sty up from the table the surgeon manipulates the

area of the spine showing the greatest deformity which is usually the lower dorsal region During the manipulation the sound of the breaking up of fibrous adhesions is usually heard. The pressure is continued over the deformity until the some is sightly over corrected 3 plaster-of Paris cast extending from the armosts to the knees is then applied with the patient resting on hyperextension hars

liter from ten days to two weeks the east is brailved and baking and massage are begun to the patient grows stronger he is allowed to be out of the cast for increasing intervals of time and when he as strong enough to stand a brace is annied to hold the back in the corrected position

Four cases in which this treatment was given are reported. The first was that of a man twenty four years of age with stiffness and fixed flexion of the spine which had come on gradually after about t o sears of backache Roentgen examination showed no hony anialosis After manipulation a cast was worn for two weeks and then a brace for two months It the end of that time the nationt was so much reheved that he refused to wear the brace any longer He was able to stand erect and to wall with assur

The second case was that of a man twenty three years of age with a general Lyphosis which had kept him from working for three years Manipulation was done after a course of medical treatment Four months after the man pulation the spine was straight but its movement was limited and the u e of crutches v as necessitated by stiffness of the hips Hot ever the patient considered his condition much improved by the treatment

The third and fourth cases were those of young men with flexion deformity. In these al o manipula tion resulted in good extension of the spine

Bony ant, losis is a contra indication to manipula WILLIAM I CLURK M'D tron

Leddy E T Tie Roentgen Treatm at of Metas ta ls to the 1 t b m and the Bon s of th P hi f om Carcin ma of the Breast A 03 τ. 6 7

Skeletal metastasis from carcinoma of the breast s a manifestation of the terminal generalization of the disease Its incidence should therefore approach 100 per cent but is difficult to determine exactly from the literature

The reason why carcinoma of the breast should metastasize so frequently to the vertebral and according to many pelvic bones is not known observers the parts of the skeleton most i equently mvolved are the spinal column the pel is the upper part of the arm the ribs and the skull (given in order of decreasing frequency of involvement) Occase nally a primary tumor has not been found chaically a hen symptoms of metastas a were mani fest It has been stated that the possibility of metastasis is closely related to the h stolog cal struc ture and spatial extent of the prima y tumor that the greater the local growth of the neoplasm the less likely it is to metastasize and that the incidence of metastasis to bone is highest in cases of scirrbous carcinoma.

The mechanism by which malignant cells are carried to the vertebral and pelvic hones is still a subject of controversy Carumona metastases in bone develop within the marrow. When the number of carcinoma cells is small the marrow appears normal. Having invaded the bone metastatic carcinoma may cause the formation of individual nod ules or an infiltration so profuse that it may fill the femur. It may then grow along the vessels of the femur. It may then grow along the vessels of the cortex to the surface and produce a knobby sub periosteal thickening or multiple diffuse regions of hone absorption.

In an attempt to evaluate the influence of room genotherapy on metasta es of carcinoma of the breast to the vertebre and the bones of the pelvis Leddy reviewed the cases of forty women who were treated in the Se tion on Roomigen Ray Therapy of the Mayo Climic in the period from 1925 to 1928 meliusive. In twenty cases the primary lesion was in the left breast in nineteen cases in the right breast and in one case in both breasts. The age at which it developed was that usually given as the cancer are.

The characteristic symptom of involvement of bone secondary to carcinoma of the breast is pain At first this may be mild or transitory but later it becomes more severe and constant. Skeletal metas tasis may be present for months without evidence of local recurrence or visceral metastasis. Of the forty patients whose cases are reviewed by the author two complained of mild pain twenty of severe pain

and eighteen of crippling pain

The neuralgic pain may last for a long time with out palpable deformity of the bone. Ultimately the shape of the spinal column changes. In thirty eight of the cases reviewed roentgenograms of the thoracic organs were negative for metastasis but in two of them they revealed carcinomatous spread. It is of course evident that roentgenotherapy directed to the thorax in postoperative treatment can bave no effect on malignant cells already disseminated outside the fields treated and cannot retard the growth of cells already in the spinal column and the hones of the pelvis.

Of the systeen patients who underwent operation at the Clinic nine received postoperative roentigen treatment at the Clinic one received such treatment at the Clinic one received such treatment at the Clinic and elsewhere and six had no post operative treatment. Although the number of cases operated upon at the Clinic is too small to permit definite conclusions or generalizations they suggest that there is no relationship between the histogical character of the tumor and the incidence or type of

metastasis

The roentgenograms in the cases reviewed showed that metastasis was most frequent in the region of the sacro iliac joint next most frequent in the sacrum next most frequent in the lumbar part of the spinal column less common in the femur and least common in the pubis

Various methods of relieving the pain of metastatic carcinoma in bone have been reported but as a rule the pain of malgnant involvement of the vertebra and pelvis bas been treated with analgesics and sedatives. That roentgien therapy may give excel lent results in cases of osseous metastasis has been known since 1909 but the literature contains few references to systematic studies of roentgen irradia tion in this condition. In spite of the common opinion that metastatic carcinoma in bone is resistant to irradiation excellent results have been obtained from moderate divided doses.

Of the forty patients whose cases are reviewed by the author thrity two were treated for the relief of pain and eight were given placebo treatment. Of the thrity two treated for relief of pain only two failed to develop analgesia. The data are inconclusive but in fourteen cases in which the pain was not relieved until from one to two weeks after the treatment the analgesia lasted for from two to four months or longer whereas in seventeen cases in which relief was obtained more quickly it usually lasted less than two months. In the two cases in which the treatment failed roentienograms were positive for metasticss.

In evaluating the results of treatment it is neces sary to consider both the symptomatic effect and the organic changes in the lesion. The relief of the pain of metastases in bone probably depends upon destruction of inflammatory and carcinomatous cells and a direct action on the nerves. Manifest results from irradiation of a tumor require the absorption of an effective dose by the lesion and the lapse of sufficient time after the irradiation for the effects to become manifest.

The palliative results lasting for several months which were obtained in more than 90 per cent of the cases reviewed indicate that roentlen therapy is worth while

## SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Verrall P J Some Amputation Problems Proc Ro Soc M d Lond 1930 x 11 183

The author states that in the case of the lower limb a tilting table prosthesis should be avoided if possible but is necessary for a stump measuring less than 5 in from the great trochanter. In general the best amputation of the lower limb is done just below the small trochanter. After such an amputation the posoa fleves the stump and the patient sits in the bucket of the prosthesis. For an above, knee himb the amputation should be at least 4 in above the condyles and preferably should leave a stump measuring 10 or 11 in from the great trochanter when the normal femur measures 19 in and a stump measuring 12 in when the normal femur studies 11 in 11 in

of tibia but much shorter stumps than this can be fitted Greater length in the leg is useless

In the arm the ideal amoutation above the elbow is done 7 in below the acromion and the ideal amputation below the elbow is done 7 in below the olecranon

It is generally agreed that flaps should be no longer than the diameter of the limb and should contain no more muscle in their base than is necessary to

insure a sufficient blood supply

Imong the most frequent amoutation problems are nerve disturbances. The author agrees with Lage that the major nerves should be dealt with by crushing and tying with minimal traction. How ever he does not approve of alcohol injection to relieve the pain in the early days after the amouta tion and to obtain earlier settling down of the sensitive reflex. He believes that alcohol injection produces a permeural fibrosis

Hamostasis should be complete There should be no hesitation in surrounding small portions of tissue with a circular ligature i hen there are patches of small vessels which cannot be picked up singly If hamostasis is complete dramage is unnecessary The author believes that it is better to allow space bet een sutures for the cut of oozing than to intro

duce a dramage tube

To give est and prevent flex a deformity below knee stumps should be splinted and above knee stumps shuld be steaded by a light sand bag placed above (not below) the stump

The author usually does not change the dressings until the fourth day. He keeps the patient in be l for at least three neeks fie states that when the stump is normal massage is quite useless and may

be harmful

Emergency amputations are of three varietiesthe guillotine amputation the through joint am putation and the amputation with flaps left open. The last is done only when the sepsis feared is comparatively mild and the length of limb that can be preser ed is so short that the joint above can be perman atly preserved by no other pr cedure emergency amputations are generally necessitated by seps a it is essential in such operations to avoid opening up fresh tissue and to establish maximum dramage. These requirements are met better by the gu llotine amputation than by the through joint amputation as the recesses of the synorial cavity may harbor sepsis long after it has apparently sub Undue retraction of the skin can be pre vented by some form of extension

The author has found spraying the raw surface with dichloramine T superior to all other methods

Re amoutation must be deferred until all smuses have been healed for at least three months and there is no ordema of the stump but not neces sarrly until the wound is bealed or all sequestra have separated

The author believes that the Lisfranc amoutation although almost universally condemned is a good type of amputation provided the proper prosthesis is fitted The proper prosthesis is one in which the loss of the long arch of the foot is replaced by an arch support

The Chopart amputation is inadvisable in the cases of adults but a very valuable amputation in the cases of children since in the latter muscle balance for the gastrocnemius can be obtained by proper transplantation of the tibialis anticus

The Syme operation even when performed skill fully is far less certain to give satisfactory results

than a militarsal amputation

imputation stumps which appear too short can frequently be fitted with good prostheses if the excess of soft tissue is removed. In amputations of the thigh with preservation of the hip joint a thin conical stump may be quite useful. In the leg a bone length of 134 in is sufficient provided the gastrochemius is removed. When the knee cannot be preserved at will be necessary to amputate through the thigh if a modern limb is to be fitted. When the patient cannot afford a modern limb the question of excision of the fluid arises. In general the head of the fibula should be preserved as it affords an excellent anchor for a prosthes a hut when the end of the fbula has rotated and the trhiotibular tornt is loo e removal of the whole bone is essent al

The causes of unsatisfactory stumps are numerous Too early limb fitting may lead to a chron c peri ostitis especially in cases in which sepsis was the and cation for the amoutation Loss of the cutaneous neme supply will lead to trophic disturbances and even to ulcer formation Seborrhors some furuncles and intertrigo may occur in cases in which the skin as sensitive in adherent scar may or may not lead to disability When it does it should be excised Ulceration may result from circulatory deficiency trophic d sturbances due to nerve division general d seases such as lues and nervous diseases such as syringomyelia. The treatment must be directed against the cause Bursæ normally form over pres sure points They cause trouble only when the prosthesis is improperly fitted O teomy cutis of the stump calls for surgical treatment Spurs rarely require removal and it is doubtful whether their formation can be prevented by treatment of the bone end Stiffness in the joints may necessitate re amputation or arthroplasty to allow the use of a prosthesis Aeuromata are especially hable to cause trouble when sepsis has been present. In most cases good himb fitting is suff cient for relief If not local excision is indicated Circulatory disturbances of nervous or gin may be relieved temporarily but not permanently by sympathectomy and ram section Causalgia and the phantom limb are cured only by time and occupation

### Rollo S Tle Fate of Ca tiling Tran plant (5 ll oluzo ee tde t no d tt pantid c til g ) tid h 193

The author reports experiments on young and mature rabbits in which he grafted cartil ge with and without perichondrum. The bistological find ings are shown in photomicrographs. Macroscopic and microscopic examinations were made at varying periods up to as long as two years after the transplantation.

The experiments showed that cartilage grafted into the subcutaneous itsue dies undergoing more or less slow degeneration followed by ab orption connective issue substitution and calcarcous infiliation. These phenomena are retarded by the presence of the perichondrium and take place considerably earlier in heterotransplants than in homo

transplants Rollo believes that reports of the permanent taking and proliferation of cartilage grafts are based
entirely on observations of cells in the peripheral
zones of the grafts which are better nourished and protected by the perichondrium and therefore preserve
their normal appearance longer than the other cells.
He concludes however that the absorption and
connective tissue substitution take place sufficiently
slowly for cartilage to be employed as a material
for prostlesse in surgers.

AUDREY G MORGAN M D

Tavernier L The Robertson Lavalle Operation in Joint Tuberculosis (Lopérat on de Robert on Lavalle dan les tuberculoses articulaires) L)o cl r 1930 xvvii 645

The author reports fourteen cases of joint tuber culosis treated by the Robertson Lavalle operation which were followed up for not less than a year and not longer than four years. Eight of them were cases of tuberculosis of the hip and six were cases of tuberculosis of the kneep

At first Tavermer used the original Robertson Lavalle technique making oblique canals in the bones from the metaphysis to the epiphysis introducing bone grafts into these canals and uniting the ends of the bone grafts by subcutaneous grafts Wben the Robertson Lavalle technique was modified by omission of the subcutaneous para articular grafts Tavermer adopted the simplified method Ultimately be omitted the bone grafts also for he decided that as the roentgenograms showed no proliferation of bone the good effect of the operation was due not to the bone grafts but to the per foration of the bone and the results would be better if the canals were not occluded

In all but two of the cases reviewed the immediate functional improvement was remarkable. When the casts were taken off at the end of three weeks the joints were free from pain contracture and vicious attitudes and painless mohilization could be begun. After a few days of rest in hed the majority of the patients were able to hegin to walk. Decided im provement was apparent also in the general condition the local swelling decreased and the fistulæ dired up.

Unfortunately the improvement was only temporary in the majority of the cases. In five it lasted only from one to three months and in ten it lasted

ten months. In some cases recurrence developed after the patient was believed to be cured. In others with apparent cure the roentgenograms made in the follow up examinations showed progressive bone lessons although walking was not prevented by pain or rigidity of the joint. A complete cure seems to have been obtained in only three cases and in these the lessons involved only the synovial membrane.

On the bass of these results the author concludes that the operation is not to be recommended for cases of scrious bone lesions but that in its simplified form it is free from risk and worth trying in cases of early spowal involvement. Even in the latter it is not a curative operation but only an adjuvant to the classical treatment. Taveriner attributes its effects to changes in the vasomotor conditions of the focal circulation brought about by the local bleeding. This would account for the transitory character of the effects.

AUDREY G MORGAN M D

Mckim L H Conservatism in the Treatment of Infective Bone Lesions of the Fingers Canadian M 1ss J 930 x in 642

The author states that there seems to be a tend ency especially in industrial surgery toward radical treatment of bone lesions of the fingers even to the point of amputation in some cases. He believes that this is due to economic pressure amputation being accepted by the patient in order to escape prolonged disability.

The presence of periosities or osteomy elitis is not always an indication for curettage. If roentgen findings were better understood and more conservative treatment was given many injured fingers might be saved.

The author reports three cases of infected bone lesions of fingers

In the first case that of a nurse a roentgenogram made seventy two bours after the finger was pricked with a pin showed a small area of bone absorption on the distal phalanx. A neb mouth nucsion was made and a pocket of pus evacuated. The packing was removed after five days and the patient returned to duty after two weeks.

In the second case in which there was a severe infection of the index finger a sequestrum involving the distal three fourths of the provimal phalanx was removed. Good function was obtained although the finger was reduced to a little more than half its normal length.

In the third case a roentgenogram made a month after an injury of the index finger showed sequestration of the distal end of the middle and the proumal end of the distal phalanx. As it was impossible to remove the sequestra without destroying the distal joint the finger was treated conservatively. After about six weeks healing was complete what looked like sequestra had apparently regenerated and motion was about two thirds normal.

BILLIAM 1 CLARK M D

Vignard and Bérard Four Cases of Beginning Coxal<sub>k</sub>la Treated by Curettag and Filling Late Results After Sixteen Eleven Eleven and Three Years (S r quatre cas de coxal es au débat cur tees et plomb es Résultats élo gués datant de to tr tr et 3 an } Lyon cher ros XX 1 078

The authors report four cases of he mming coval gia operated upon by Vignard by his method of limited curettage and filling with Mosets s mixture The results may no , he considered final as the operations vere performed from three to sixteen years ago The patients had had the disease for from three to eight months 'ill vere absolutely cured within from six months to a year after the operation. There i ere no complications suppura tions or recurrences All of the patients have been able to resume normal life and do heavy work Three has e a perfectly normal upright position and all normally. One has a slight limp from insufficiency of the gluteal rauscles and presents Trendel enburg's sign. Flexion aries from 25 degrees to normal Next satisfactory are external and internal Abduction and adduction are the most limited but in the patients they reach as and 30 The functional condition is not directly degrees dependent on the amplitude of the movements One patient walks much hetter than another who has much greater mobility of the h p

The good results are explained by the preserva tion of the musculature at the root of the hip and

the re adaptation of the joint surfaces

In the roentgenograms the head of the femur has a different appearance in the different cases. In one ca e in which the lesions were entirely synovial it is almost normal. In a case in which the curetta e was done in the lower part of the head and neck it shows enormous hypertrophy. In a third in which the urettage was done in the upper part of the neck and head the upper horder of the neck seems very much sh rtered or e en telescoped. Its appearance suggests that a large amount of tissue was remo ed whereas care was taken to curette only very limited lestans

These cases demonstrate that in the hip only bmited le ions chiefly those that are in ta articular can be operat d upon if the anatomical relations necessary for sati fa tory function are to be nre AUDREY G MORCAN M D

ser ed

Vallone D The Late Results of Reconstruction of the Anter or Cru ial Ligament and the External Lateral Lig ment of the knee with Aponeproti Fl ps (L t a dst n dil con d I legam to o ato ant o del I gament I terale st r del gino ch o 1 mb aponeur ti ) Clrd og i di mor zv 308

The author reviews the various methods of recon tructing the antenor crucial and external lateral ligaments of the knee and reports a case in which he used a combination of the methods of Groves and

Putti The patient was a twenty year old man with a rup ure in the middle of the anterior crucial I ga ment The upper end of the le ament was ve thle but nothing seemed to be left of the lower end except a few fibers The joint capsule and external lateral

ligament v re also injured

In the reconstruction of the ligaments a canal running downs and inward and forward was bored in the external conlyle of the femur. The inner opening was exactly at the insertion of the anterior crucial ligament Inother canal running through the soint inward downs and and forward was mad in the middle condy le of the tibia with its entrance at the lower insertion of the ligament and its exit below the internal tuberosity of the tibia dunculated flap of fascia lata 2 cm ivile and 15 cm long with its hase at the external condile of the femur was then to 1 ted on itself several times to form a strong cord and passed through the two openings. The limb was then placed in exter ion and the cord fixed with silk to the perio teum of the internal tuberosity of the tions at its exit and with silk at its point of entrance. The joint capsule was closed with catgut and the external late all gament reconstructed by means of another pedunculated flan of fascia lata fixed with silk to the head of the fibula. The soft parts were then closed the subcutaneous tissue dinined and a plaster east applied to the limb and pelvis After twenty five days the cast was removed and acrive and passive movements sere hegun. The joint is non in satisfactory roads tion s ith normal movements and stabilits

I roentgenogram taken four yeas after the operation showed no difference in density to in dicate the presence of the canals but this does not prove that the causis are filled with home as roent genograms failed to show canals made by the author in the joint of a cadaver. I'ven if the transplant d d not survive permanently its survival for sixty day is long enough for the formation of intra artical r AUDRES G MORGEN MD f brous tissue

# FRACTURES AND DISLOCATIONS

Ell son E L and Wright V W W Pathological Fractures 5 g Cl 5 th Am 930

The authors state that all so called spontaneous fracture have a definite path logical basis and that the treatment and progno is of pathological frac tures depends upon the cause. They define p tho log cal fractures is those occurring from any other w se insignificant force acting upon a bone weakened by disease In the r own cases the most common c uses of bone fr 1 ty were (in order of decreasin frequency) bone tumors inflammatory changes and nutritional disturbances

The incidence of patholog cal fractures : h. hest in the long bones Mentioned in order of decreasing freque cy of involvement the long bones most often fractured are the femur the humerus the tibia and the radius Metastases from organic malignant disease may occur in long or fi t bones

As flat bones are seldom subjected to trauma pathological fractures of flat bones are rare

Pathological fractures occur most often in the extremes of life. Nutritional defects of bone such as those resulting from rickets and scurvy occur in youth. Sarcoma is more frequent in youth and early adult life than in old age, and carcinoma neuro tropic and atrophic changes are most common in

late middle and advanced life

In fractures due to benign tumors union is the rule. In cases of bone cysts fracture usually results in cure of the cystic condition. Hawley states that union is the rule in fractures due to carcinoma but according to Bloodgood union of fractures due to metastatic carcinoma is rare. Pancoast reported that in 40 per cent of his cases of pathological fracture due to carcinoma union occurred with or without treatment by irradiation. Bloodgood states that in case, of fracture due to streoma union is very rare doubtful union occurred in only two of twents one cases reported by him.

In fractures due to acute and subacute inflam matory conditions union is the general end result if the infection is given early and adequate surgical treatment. In neglected cases especially in adults non union may occur. In fractures due to chronic inflammatory conditions union with excessive callus.

formation usually results

In fractures occurring in general disease union is delayed or fails to occur depending upon the course of the general disease. In rickets osteo malacia and scurvy proper treatment results in union. Fractures due to osteomalacia frequently heal with excessive provisional callus formation.

H EARLE CONWELL M D

Juvara E Osteosynthesis (Cont ibution à losteo synthese) Bill et mêii Soc de chir de Pa 930 xui 602

Juvara performs osteosynthesis in the treatment of (1) incompletely reduced fresh fractures (2) nearly all open fractures (3) fractures with late complications and (4) fractures with non union or malumon. He emphasizes that the material used must be easily quickly and exactly put into place and so strongly fixed in position that except in rare cases the use of an external prosthesis will be unnecessary. It must have the least possible contact with the bone and must be easily removed after it has served its purpose. Juvara does not approve of procedures in which the bone is covered to a considerable extent by metallic parts. He helieves that osteosynthesis should be done as soon as possible after the accident

Seven fractures treated successfully by osteo synthesis are reported. These included (1) an oblique subtrochantene fracture of the femure which had united with marked shortening of the limb and great angular deformity due to adduction and rotation of the lower fragment (2) a subtrochantene \(^1\) shaped fracture with three fragments (4) a fracture of the upper third of the leg in which

the tibal fracture was oblique and pseudarthrosis resulted (5) a fracture of the middle third of the leg in which the tibal fracture was oblique and there was non union with great angular deformity after three months (5) a double fracture of the humerus—an oblique fracture in the upper third and a transverse fracture of the surgical neck (6) a low supracondylar fracture of the femir with great displacement and (7) a comminuted supra condylar fracture of the femir Pace

Soli D Traumatic Lesions of Certain Bones of the Wrist (Lesioni traumatiche di alcune ossa del pol o) Chr d o g ni di mo me ilo 103 xi 3 6

The author reports three cases of traumatic lesions of bones of the wrist. The first was a case of fracture of the scaphoid bone caused by a fall from an overturning wagon The patient fell on his right band which was hyperextended and turned toward the radial side About ten minutes after the injury the wrist became painful and swollen On examina tion palpation elicited pain at the site of the scaphoid The other bones were painless Passive adduction of the radius was very painful and flexion and extension of the hand were limited and slightly painful The diagnosis of fracture of the scaphoid was confirmed by roentgen examination which showed a linear fracture without displacement of the fragments Immobilization in a plaster cast for eight days was followed by hot air baths massage and gradual mobilization

Soli states that it is difficult to determine the prognosis of fractures of the scapboid as sometimes especially in boxers these fractures are not recognized sometimes they beal with limitation of function from pain or rigidity and sometimes they

result in ankylosis

In the second case reported there was a luxation of the semilunar bone with a comminuted fracture of the pyramidal bone. The patient was a man thirty eight years of age who fell from a height of 4 meters on his right side. He did not know the position in which his hand struck the ground but stated that the blow caused intense pain. After the injury the hand was turned toward the ulnar side and slightly flexed and the wrist showed a slight diffuse cedema but no ecchymoses Pronation and supina tion were preserved. The fingers were slightly flexed Extension was almost impossible and other active movements were very limited. The patient complained of spontaneous pain in the wrist joint which irradiated to the fingers. It was impossible to close his band. All passive movements were limited and painful The anatomical snuff box was free and the metacarpals and bones of the second row were not painful Below the flexors and between two lines traversing the wrist on a prolongation of the third metacarpal a slight elevation was noted. A diag nosis of anterior dislocation of the semilunar bone was made and confirmed by roentgen examination Roentgen examination showed also a comminuted fracture of the pyramidal hone The dislocated bone

and the fragments nere removed and immobilization of the rist for eight days was followed by gradual mobilization massage and electrical treat

The third are reported by the author was one of irracture of the trapezium in a man twenty three verse of age who was struck by a track, while he was riding a motorcicle. The right wist was slightly adematous and presented an ecchymosis on the external half of its volat surface. There was no special whom and postend of the band and no de formuly or creptation was noted. I assive move ments of the joint were normal. There is ten in subject to a simple to joint were normal. There is the most postended to more a subject to a simple of the simple of the subject of the simple of the simpl

The author states that traumatic lesions of the tapezium are very rare. He believes that in the case he repo is the trick struck the hyperevirendel hand and that the escape of the scaphold from jury is explained by the relative elasticity of this

bone due to the patient s with

The cause of the increase in the rejorts of injuries of the spine cannot be determined aid? certainty but it is probable that ref nements in co-nigen technique have alloyed the recognition of fractures which forme by were disapposed incorrectly.

The severity of a spinal injury is not all all als pro portionate to the severity f the mechanical force chusing the injury Serious mechanical ansults often cause no lesions whereas slight mechanical insults may produce I sions of great se etity. To explain this fact the auth r cites the vork of Moskalenko on the structu of the spongiosa and that of Goecke on the resistance of young and esteoporotic spongiosa. As vertebral fractures may result from muscular contraction alone experiments on cadavers have only a slight value. With regard to the relation of the morphological necul arities of the spinal column to the disproports n bety een the sevents of mechanical insults and the seventy and nature of resulting spinal injuries the author cites the views of Schanz on the accesso y seight bearing parts of the some and the v th of Schmorl on the anatomy of the vertebral bodies and intervertebral daks

Jaki reviews forty seven cases of injury of the spine. The old theory that compression fractures do not occur before the streenth year of age is not correct as the cases reviewed included as it ractures in child on under that age. The author classification the fractures according to the class fracture of both cases in the control of the cases according to the class fracture of both cases which is based on local zation. If one of his cases occurred in the control according to the control of the co

cervical vertebra without injury of the spinal cord. The author discusses fractures of the transverse processes and arches of the vertebra.

The treatment is discussed on the bane of the hterature. The author a patients with mild injuries were treated in the dorsal posture and those with severe injuries were placed in a plaster cast and in the central posture. Pat ents is this simple compression fractures were treated in a plaster cast for forty days in the hospital and then for four weeks more at home. In the cases of those with less severe injuries rest in bed for four weeks seemed sufficient. Mer is severe the property of th

I taling or a long-to-day size of any times yere troubed to be better to compression fractures yere troubed to be desired to compression fractures and the treith dorsal yer better as a monotived only marked redemand the darn as found but the parally a persysted and the pattent dred from series due to decub tair. In the second crase that of a filteen set old buy with a fracture of the fifth lumbar vertebra adhesion of the nerve stems to the dura was discovered after three months. The athesions were released but there was no change in the neurological buddings.

The follow up crammation showed that patients with insurance had more severe symptoms than those mithout insurance and that those without insurance resumed their occupations earlier

Ifelence (2)

This article does not include displacements of the pelvis following chiercy or those following open tions on the 50 mills of the fellowing open tions on the 50 mills 50 mills or in 18 neighborhood Displacements of the pelvis may be divided into up and ins and and outstand fusitions of the 65 cour. They may be its simply seel the result of securation of the 50 mills spinks public sound outstand further than 18 mills of the 18 m

of the symphy as polis and both sacro 1-c joints. In a review of the literature the authors collected thirty, five cases of livation of the os town upward and insural and fifty one cases of luxarion of the bone outward. Of the latter fifty one were by symphysical and e gith were tri symphysical Ten of the by samphysical jurations were of the type described as the pulse separation of hoseman.

Dislocation of the poliva is the result of seve examing 1 begins at the symphys a public and is usually accompanied by a secro line less on Lesions of both secro line legislate are rare. Separation of the public as imply six is most common in men past the fourth decade a final are muscular and rather heavy. Les ons of the pelic gradle may be divided into I gament lesions and howed of splacements and the latter into separations and hirations. Issuranted impuries of the unnary tract are frequent. They vary in importance according to the degree of diplacement of the pelic bones. Rupture of the methan

is most common in cases in which there is a marked ascent of the os coxe ie true luvations of the pelvis. The cause is traction on the perineum Vesical lesions occur most frequently in cases of

separation of the symphysis puhis

Luxations of the pelvis are accompanied by severe general phenomena. These include pains in the inguinal and sacro iliac regions which are often propagated to the injured lower limb functional impotence of the legs hyperæsthesia and paralysis of the wounded side from stretching of the nerves of the sacro iliac joint The patient is unable to walk or stand up Examination reveals ecchymoses and beneath these a voluminous hæmatoma covering the public region encircling the scrotum distending the perineum surrounding the anus and extending toward the lumbar region and the roots of the thighs The hæmatoma makes palpation of the skeleton very difficult. Nearly always the separation of the pubic symphysis has not been recognized. On pal pation pain which is less severe than that asso ciated with fracture is noted in the pubic symphysis and in one or both sacro iliac articulations cases in which the effusion has been absorbed separa tion or unevenness of the symphysis may be noted The Verneuil sign pain on transverse pressure on the pelvis or the Larrey sign pain on excentric pres sure may be present as in fracture

In traumatic separations of the symphy sis pubis without vertical displacement the lower limbs are in extension and generally rotated outward and there is no shortening. The increase in the circum ference of the pelvis may be ascertained by tracing

from each side the spinotrochanteric lines of Schmoecker. These lines will be found to meet at a higher point than normal. When there is luxation of the os cours the rise of the pelvis is manifested hy apparent shortening of the himh on the injured side. The authors describe methods of measuring. The chief aid in the diagnossis is roentgenography.

In the mnety four cases of luvation of the pelvis reviewed there were twenty nine deaths a mortality of 32 5 per cent. The deaths were due chiefly to visceral complications. The prognosis is relatively flavorable from the point of view of function hut in some cases there may be persistent pains in the cruial and scattic nerve se visceral sequelic and de formities of the pelvic girdle. In non reduced or partially reduced luvations there is an apparent shortening of the limit which may amount to 6 cm. Recoverv requires several months and the incidence of permanent disability may reach 70 per cent.

Transverse separations of luvations of the pelvis sometimes become reduced spontaneously. In transverse separation with lesions of one or both sacro liae joints sudden or progressively increased pressure on the lateral surfaces of the pelvis may correct the symphy seal displacement. The pelvis and lower limbs must then be immobilized. Reduction of luvations of the lilac bone is more difficult. In old luxations the treatment can be only symptomatic.

The authors discuss also the treatment of complications of pelvic separations and luxations in cluding wounds of the bladder and posterior urethra

ACE

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Tidy II I. Sympt m and Path gene is of the Haemor hagic Diathe 1 H / W / 94 s

The author states that the e catual cause of the homorrhages in the homorrha c lattle is an increase in the permeability of the capillary and thelium. The platelets attempt to just at the weak systamia are thus seen well in the circulation an increased demand for platelets c insequently fails in the lone murrow and the latter may or man in the platelets of the platelets are not seen to the platelets of the platelets are not better than the platelets of the platelets and the list of the blo dincreas and the is a tendency toward spodoge nous spile on the gement

The vmpt ms of the hemoerthag: I albes s may be dy fed int three gr up (1) ham rihage (2) anoma lue to the loss of blood and the I am on the blood in must use and (3) the results of the scape f plasma into the tissues namely selema

abdominal colic and prin an is well in, fthe jints. Tidy believes that the valetes 1 the hemorphage diathesis may be class fel into three groups of 1 the character zed by pure primars, harmorphage including all gides from purpura sampler to purpura sampentagian the principals simplement of which are attributable to anarmia (3) those character zed by pure primary utracturant therpine palsymptoms of vinch are addominal colic and joint printing and urt carns including Henoch's purpura and purpura and colling the principal symptoms of which are addominal factor though the did due mainly to the utricanal factor though this does not cause any d an on the bil of forming rgns necess tate the removal of d bris from the utsiases or cause enlargement of the spleen.

The us no sharp dx d ng hne between the hom rehage dathesis and splenue anaema but Banti sd sease and harmophiha are separate entitres. The author believes that splentent my is a thera peutic measure of great value in selected cases of the homor hange thathe s but is contra indicated unless the pl telets are diminished an numbe 100 rs P Gyangar M D

Wight A D The T eatment of Valice e Ulcers

In two years the author has cured me e than goo cases of variose ulcer. His method 1 quites imple. The highest visible var cose ye is air injected vith 5 per cent is d um morthiste and then regardless of the appearance of the ulcer the legs firmly encased 1 om foot to kine in a 3 in spiral bundage of elastoplast a lineave. To prevent creeping of the bundage longitudinal splints of the same material 9 in long are laid on the sides of the leg above the ankle and the spiral is applied over them. The patient is instructed not to restrict he physical activity. I discharge seeping through the bandage is washed oil with soon and cold male;

The time for the application of the second spiral bandage depends upon the reduction of the edema 1s the edema subsides more virucose sean may be seen. These are injected in the usual fashion. When the utcers are large, the elastoplastic bandage is changed twice a vect.

lender this treatment healing is usually rap d. It the ulcer is very large skin grafting is performed in order to keep the treatment ambigatory the graft are burned beneath the granulations as small insects. Jarned in as skin threads or ingited. The ulcer is then covered in exactly the same manner as before

After healing is complete the support is continued for three months by means of Unna bandages and the patient is instructed to report for examination every three months

Annover Sait MD

S If t Tie Int rp etation of the Pain in Embo If m of Arte les Supplying Large Are so the Extr mittes (Zu D utung de Shme b d l mb l g Giedmas a ter ) Z l all d Ch 93 p 2197

The sympt ms of embolism of an artery of an extremity than disturbances of sensation and motion politor of the skin and d sappearance of the pulse; do not definitely, indicate the site of the embolish but if the nature of the pana and its stear studied carefully more accurate diagnostic information can be obtained.

In a case of embolism of the artery of the arm the author observed a sudden displacement of the po at of pain to the cibo. It this moment the embolus apparently moved to the ulnar actory. The pain occurr ng at the time of the occlusi n of the artery is due to a vascular spasm caused by the ir itat on from the foreign body the embolus occluding the artery is not itself the direct cause. In the case reported the prins were relieved after an ope ation attempted und r local anæsthes a in spite of the fact that the embolus v as not removed. The severe pains a sociated with gangrene which according to L chr a investigati as appear even before the gan grene and have their cause in a tumescence of the muscular tissue are of a different nature author therefore recommends that in cases in which embol sm is suspected more attent on be pad ! the nature time of onset duration and site of the

In the discussion of this report GULEKE stated that some patients are able to feel the separation of a thrombus in a vein and the different stages of its migration E WILLES (Z)

#### BLOOD TRANSFUSION

Isaacs R Blood Changes in the Leukæmias and the Lymphomata and Their Bearing on Roentgen Therapy 1m / Roentgenol 1930 815 41XX

This article is hased on 878 cases of lymphatic and myelogenous leukæmia and lymphoblastoma which were treated at the Huntington Memorial Hospital in Boston and at the University Hospital and Simpson Memorial Institute at Ann Arhor Michigan

The findings show that the stimulating action of the roentgen rays causes the younger forms of leucocytes such as the primitive myeloblast to di vide and form the same types of cells Leucocytes as advanced as the myelocytes are stimulated to normal growth to form polymorphonuclear leuco on young old and roentgen irradiated cells dem a marked increase in the number of polymorpho

The action of Janus green and neutral red onstrated that cells mature rapidly when exposed to irradiation Only older leucocytes are excreted by mucous membrane Roentgen therapy causes nuclear leucocytes thus excreted Myeloblasts may fill the bone marrow and crowd out other cells after roentgen therapy When most of the cells in the hone marrow are in this stage they cannot be stim ulated to mature hence they are said to be refractory to the roentgen ray Continued treatment under such circumstances reduces the number of germinat ing cells and causes aplastic anæmia. The matura tion of the polymorphonuclear leucocytes progresses much more rapidly after roentgen therapy. That the maturation and development of erythrocytes are also hastened is shown by the improvement following roentgen irradiation in cancer and the

The early forms of lymphocytes are stimulated to reproduce in a manner similar to the leucocytes Roentgen irradiation is often contra indicated in chronic lymphatic leukæmia hecause the lymphatic cells are in an early stage. In this condition roentgen irradiation is best given when the lymphatic cells are of medium or small size at which stage they will tend to mature more rapidly

While roentgen irradiation may result in symp tomatic improvement Minot Buckman and Isaacs have found that it does not prolong life except in individual cases in which an immediate and mechani

cal cause of death is removed

In anamia irradiation will not be beneficial when there is a preponderance of myelohlasts or lymph blasts The older red blood cells and blood platelets will not be increased in numbers while the bone marrow is clogged with young cells

In addition to the blood findings the general condition must be considered in determining the treatment A high hasal metaholic rate nervnusness

sweating a fast pulse and loss of weight are definite indications to irradiation even when the leucocyte count is not markedly increased. Irradiation is indicated when the cell count is low and the rate of cell excretion from the mucous membrane is high as these findings are evidence of an active cellular bone marrow It is very important to gauge the latent period or the time hetween the exposures to irradiation and the time at which therapeutic results are noted in order to make sure that the patient is receiving the proper stimulation author advises limiting the number of exposures as much as possible The larger the effective dose given at one time the quicker will he the response on the part of the blood cells

CLARENCE V BATEMAN M D

Blood Transfusion in Surgery Soderland G (Ucber Bluttransfusion in der Chirurgie) Hygiea 1930 TCH 513

Soderlund states that the experiences of the World War greatly increased our knowledge especially with regard to wound antisensis and the nature of shock following injuries and operations The problem of shock given little attention in the German litera ture was investigated by an English Shock Committee As a result of the findings of that Committee the value of blood transfusion in the treatment of shock became recognized

The author takes up in great detail first the his tory of the development of blood transfusion This part may be passed over as it is well known and the work of Beck Doan Pemberton and Stapelmohr

are mentioned as sources

In the author's opinion the best apparatus for direct transfusion is that of Oehlecker and Beck Ochlecker's method is the procedure usually em ployed in the Sabbatsberg Hospital and by Stapel mohr For indirect transfusion the apparatus of Percy is best In Sweden the large Percy tube with a capacity of from 700 to 800 c cm has been generally replaced by the Jeanbrean tube with a capacity of about 450 c cm The indirect method is used routinely at the Maria Hospital and the Sera finerlazarett

If one adheres to the view that only pure not previously treated blood should be transfused only the methods of Oehlecker and Percy come up for consideration The apparatus and the method of Beck have ant heen tested for a sufficiently long time The author is unable to judge the Ochlecker method as he uses only the technique of Percy

Soderlund then discusses the dangers of blood transfusion These may be avoided by the proper selection of donors according to blood groups Atten tion is called to Lindau's work on reactions after blnod transfusion

Transfusion is indicated in acute loss of blood exsanguination postoperative and posttraumatic shock acute or chronic hamorrhages due to definite Incal disease processes (gastric and duodenal ulcer pulmonary tuberculosis hæmophilia cholæmia sep

si pernicious anama) and as pre operative preprration of patients who without it would be unable to withstand operative intervention. In dis is ingthe effect of blood transfusion the author mentions especially the great worl of Lanya and Laeber.

According to the findings of the Shock Committee shock is due to histamines albuminous torins which paralyze the capillaries \s a result of the stasis in the paralyzed capillaties, the quantity of circulating blood is diminished and the circulatory system and vasomotor centers are disturbed. This condition must not be confused with cardiac col lapse Blood transfusion apparently acts not only by replacing the blood which in a certain sense has been lost but by stimulating the hamatopoietic preams as a hamostyrtic. It is superior in every re pect to the injection of g latin or hyp rtonic sodium chloride solutions. The mechanism of the hemostatic effect of transfusion in such conditions as hamophiha and postoperative hemorrhage is unkno va Even surgeons who heretofore regarde ! sodium chloride or glucose injections as sufficient have come to recognize the necessity and advantages of blood transfusion in this connection the author cite von Eiselsberg as saving recently that blood transfusion is non indispensable in a surgical de partment GERL C (7)

## RETICULO ENDOTHELIAL SYSTEM

Magliulo A The Influ nee of the Condition of the Retectule Endothelial System on the Taking of Homoplastic Ovarian Grafts if flu a dil tato del simo tel e dil) i littee himento dell'insto o nomoplati primintale j sp ff qg i kin 338.

The author used young rabbits of the same age and the same race for his reportments. They were can trated and owners were grafted into them. The working for the grafts were obtained from animals I om twenty I to to thirty fix days old because young tissue takes mixe exadily. The grafting was don into the livre because this organ contains many reticule evoluted at cells. The stain used to produce relative block of the reticule evoluted at your relative block of the reticule evoluted at your relative block of the reticule evoluted as a reper cents. Since of organizations are formed in the first stain that the product is a reper cents. Since of organizations and promise the first state of the stain used to produce relative block of the reticule and the state of the

The grafts were found to take and survive for a varying period of time but not permanently. However, they survived longer than when the retudo endothehal system had not been blocked as blocking inhibits the reaction against forcing tissue which the system brings about Aupary C Works VID.

# LYMPH GLANDS AND LYMPHATIC VESSELS C o san E T Lymph Exudat and Pibrous Tis

Co san E T Lymph Exudat and Pibrous Ti sue An Sug 1930 10 9

In surgery fibrous tissue is a sign of recovery or the termination of irritation. It is a mighty factor in the restoration of health but just as frequently it as a stressible appoach to the restoration of fanction. Without it surgery would be impossible set be cause of it surgery is frequently impossible. The progenitor of fibrous tissues it lymph rendate. If this surgeon appreciates the qualities of lymph exidate and fibrous tissue he will understand how to deal with the c deformities which have not or cannot be controlled.

Lymph exudate is the body a first reaction to im tation. In irritation due to infection for example the emplate startes the bacteria impedes their ac tion or destroys them and prevents the r toxins from entering the circulation. The common practice of treatin infections is based on after disregard for fibrin leucocytes and serum. The attempt is made to de troy the bacteria by antisentics f equent change of druns or irrigation. These procedures however destroy at a the defen e mechanism In infected a ounds antisepties are not only u cless but harmful. The surgeon can hone to add to the defense only by physiological treatment consisting of meas ures buch will stimulate the esudate such as in cision and drainage. Incision reheves pressure and thereby causes a transudation of serum an enugra tion of leucocytes and a backwash from the lym phatics. The drain though it is inserted as a means of egress for the pus stimulates add t onal delense Therefore a drain should not be disturbed unle its temoval is absolutely necessary Frequent removal of drams : just as de tructice to is mph esudate as the use of antiscutics

The introduction of a drain to prevent dissemination of levilage is good surgery provided the surgeon ceratures that the drain may attenuiste leakage. A drain autroduced near the site of an maximum surgery and the resulting soggrames at the storm may cause the sutteres to pull out. However clinical experience shows that a drain within the abdomen for fortire child hours the period for which a prophylactic drain is used never causes symptoms.

Cro an discusses the application of phy aloreal treatment to osteomich is citing the good re ults

obtained in this condition during the var from the use of hipp paste an imprequent dress ngs

He states that the lumph equate of repair has the form forms the scaffold's them to ung fidence the fifth more than scaffold's them to ung fibroblast and the speculing blooder them to ung fibroblast the formation and character of scan He believe that contextures of scars see are determined by muscle and tendon push on the skin. If the theory is correct mensous the neck elbox hand avilla and pophetical space should be made transversely and pophetical space should be made transversely to prevent hand contractions and in cases I longitude dissal words as the surface fletures motion should be problished for four of the weeks until the fib oblists have become settled in a line parallel with the

With regard to suturing Crossan reminds us that every statch more than is required; a double irrit at

Irritation is caused by the action of the suture as a foreign hody and also by its introduction. In some cases however extra irritation may he of advantage as in hermorrhaphies in which many sutures closely placed will secure a firmer hond between the muscles and Poupart's ligament than a few sutures. Close suturing of the abdominal wall is an added protection against prolapse of the intestines or stretching of the scar. The use of many sutures in gastro enter ostomy to prevent leakage may be unnecessary. The purpose of sutures is to hold firmly the ly mph evudate scaffold.

Every discussion of lymph erudate must include fibrous tissue hut a discussion of fibrous tissue does not necessarily require a consideration of lymph exudate. Fibrous tissue springs also from hlood clot a formation in which lymph erudate is a secondary factor. Elimination of hlood clot is a method by which fibrous tissue may be controlled.

Fibrous tissue and lymph exudate are not related factors when deformities come to the surgeon fully

developed Control is then no longer possible and the problem can he solved only by stretching or collapsing the wall. If an attempt is made to hreak upthe adhesions forcibly another process of granula tion and organization ensues. The treatment of fibrous anky losis is a good example of what stretching can do

Persistent stretching of adhesions may he a cause of disability and pain

Stretching is an important factor in the surgery of fibrous tissue. Sometimes the surgeon uses it occa somally he abolishes it and frequently in abdominal surgery he guards against it by the use of a belt.

The most efficient treatment of fibrous tissue is that which has for its object the exission of the scar or the collapse of the sinus wall. Such treatment is used on the sinuses of osteomy-elitis in thoracoplasty for chronic empy-ema and in the cure of anal instula which is a sinus encicled by fibrous tissue.

In conclusion the author discusses briefly keloid peritoneal adhesions and non union of fractures

# SURGICAL TECHNIOUE

OPERATIVE SURGERY AND TECHNIQUE
POSTOPERATIVE TREATMENT

Dziembowski S. Tie Value of Certain VI ti ods of Gen rail Treatm nt of Inoperable Ne pin ma (C d to url aleur deq elque méth Is d tat m nt gént al d noopt ms 1 opé bis) I li t m S d d g de P 193

There are 250 chemical remedies for cancer The author first reports his results from some of the best known chemical methods of treating malignancs and then his results from the use of blood treated with the \ rays He obtained no effect from a combina tion of irradiation and diathermy. Intravenous in jections of glucose had no important influence on the results of irrad ation but impro ed the general con dition during the treatment and suppressed lesions and disturbances provoked by irradiation. Assenic especially when given by injection often had a favorable influence on the gener I condition. In certain cases of tumors of the bones lymphatics and skin and especially cases of esophageal cancer it caused striking improvement in the local lesion. The use of introsid (iodine and cedrium) gave no result Protein therapy was often followed by remarkable improvement in both the general condition and the local les on In some cases it seemed to arrest the progress and gene aliz tion of the neoplasm but in others its effect i as just the opposite. The results of borcholm injections with irradiation were encouraging Intravenous injections of isam nium caeruleum prior to 1 radiation impro ed the general condition caused a remarkable decrease in the pain and arrested the g owth and gene alization of the neopla m

Dziemb v ki has used transfusion of blood treated with the \ rays in 12 cases in the last two he rs

The techn que is as follows

When the p tient s general condition perm is oo c cm of his blood are allo ed to flow f om the ulnar em or the adial a tery into a glass c ntaining sodium citrate This blood is then subjected to o or 15 per cent of a skin erythema dose of centgen irradiation at a distance of 25 cm and with the use of an aluminum filter of 03 mm It is then to injected. If the patient ca not withstand the loss of so much blood the blood is obtained f om a don r When autogenous blood is used a third of it is in jected into the ulnar ve n a portion is a jected around the tumor if possible and the remainder i injected intramus ularly When the blood is ob tained f om anothe person it is injected only around the tumor and intr mu cularly When peritum ral injection is impossible (as in cases of ntra abdom nat tumor) it s replaced by an intramuscular or deep subcutaneous injection in the field where irradiation would be applied. Immediately after there injection the first irradiation (a strong dose) is administered to the focus of the neoplasm.

This treatment i followed by a reaction. There is many at a say a leucocyto's which is more lasting than that which occurs after simple \(^1\) ray irradiation. There is allow a greater increase of intro en and birtubin in the blood serum. The number of throm bocytes and the speed of coagulation of the blood are increased. In cases of secondary anamina at our able influence on the number and quality of the eryth rockes is noted.

The re ults obtained by this treatment in 60 ad vanced cases a cre very much better than those obtained by irradiation alone. Several of the cases are reported. Excellent results were obtained also in many cases of surreial tuberculosis.

Pace

### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Guillain C and De S'e S Considerations R ga ding it e Clinical C urs a d th Teatme to da S cre Case of Tet nu White Was Cured (C d t l olut cl q et i the putiq ed n s d têt g e gu ) b ll i mem S med d h p de P 93 l 3

Scrotherapy often fa is in severe tetanus when the bulbar swmptoms appear early, insucular spasms are continuous insomma is complete and delivid it in is progressive. To the serotherapy have been added such his pnotices as chloral hydrate or somma fene to relieve the insomma which is an important cause of exhaustion to dimmin the contractures and perh ps red ce the sens it e ess of the bulbs cente is to the to in. The treatment of technical extremely difficult. Success is dependent largely in the attentiveness of the nurse and interts.

The authors cite the case of a patient who recoe ed from a severe attack of tet mus who would
estainly have proved fatal if he had not recet edonst nt attention. The infection was due to a
penetrating, wound of the thenar eminence from a
dity mail. The day after the injury stiffnes was
noted in the jaw muscles and within twinty four
was called immediately began injections of a musantitorium and continued them do can generalized
antitorium and continued them do can generalized
and rendered sleep and nourishment impossible
When the past ent entered the bospital his could ton
s agrive. The muscles yeer if and at the least
disturbance general ed spasms occur and
disturbance general ed spasms occur and

In the treatment given by the authors the tract p oduced by the nail as immediately e cised and

every day from 150 to 250 c cm of tetanus anti toxin were injected subcutaneously. An intravenous injection of somnifene was given night and morning This was made very slowly and stopped at the end of about five minutes when the patient fell asleen that is to say when he no longer responded to questions Once daily the patient was anæsthetized with chloroform for a period of about an hour when serum was administered intraspinally but this was interrupted as soon as examination showed the approach of a serous meningitis. During the night morphine was given once or twice. To prevent dehydration a rectal drip of a per cent glucose in normal saline solution was given and 2 liters of normal saline solution were administered subcutaneously every day

For four days the condition remained unchanged It then became possible to give a small amount of liquid by mouth during the short period of som nolescence following the omnifene injections The amount of fluid tolerated became progressively greater and the pulse and temperature slowly de clined over a period of five days. Then a marked icterus with petechial hamorrhages and a fall in the urinary output developed. The toxic hypnotics and anæsthetic were discontinued and for four days the patient remained in semicoma Rapid improvement then followed with disappearance of the icterus polyuria and a diminution of the contractures The doses of antitovin were gradually reduced and thirty one days after the beginning of the illness the patient was discharged. Hyperactivity of the ten don reflexes persisted for some time

The authors emphasize particularly the necessity of treating the wound by excision Extremely large doses of serum must be given. In the case reported the patient received 1680 c.cm. Intraspinous therapy is no doubt of value but is not without danger. The use of general anexthetics is of great benefit but chloroform 2 associated with some danger as it is toric to the liver. Somnificne is probably dangerous only in excessive doses.

After recovery contractures of the extremites are common Ankylosis of the jaw may result. These complications can probably always be relieved by prompt treatment with mas age and passive mo hillration.

ARREY F DE GROAT M D.

Konrich The Bacterial Content of Commercial Bandaging Materials and the Necessity for Uniform Sterilization (Ueber den kemgebalt kaeuficher ve band toffe und de Notwendigkeit einheitlicher ve bandstoffste 1 se ung) 1rch kl n Chi 1330 cht 541

Aonrich examined 183 packages of gauze and 221 packages of cotton bandage material which were marketed as sterile and had been purchased in 51 spothecars shops and 3 drug stores in greater Berlin. Mo tof the pickages had 2 wrappers. Non rich was able to show that only the inner wrapping was sterilized with the contents as the outer one usually a pastehoard carton could not withstand a

sterilizing process. The result of the examination was disturbing as 52 per cent of the samples were not sterile. By sterile is meant completely free from bacteria including latent forms.

The latest German regulations for sterilization require exposure to either compressed steam at ris degrees for fifteen minutes or to flowing steam at 100 degrees for a half hour These rules must be changed for according to Konrich's studies the 2 methods of sterilization are not comparable Highly resistant spore are usually not killed in flowing steam at 100 degrees and when exposed to com pressed steam at 115 degrees for a period of fifteen minutes they are just on the borderline of destruc Furthermore the interval of fifteen minutes should be reckoned from the time at which the pre scribed temperature is attained throughout the contents The interval required for the desired degree of heat to be obtained throughout the package varies greatly with different apparatuses and sometimes cannot be determined with certainty. Also to be considered is the form in which the material is drummed The old Schimmelbusch method is poor because the steam flows in only from the side new Lautenschlaeger drums are good as the steam flows through from above downward

While with the use of dressings sterilized by pres ent day methods wound disturbances occur only occasionally and even then are not definitely proved to be due to the dressings many of the organisms found being merely saprophytes Konrich observes that in weakened patients we do not know to what extent the symbiosis of spores with other sapro phytes may aid in producing suppuration There fore a norm must be demanded Bandage materials should he sterilized under atmospheric pressure at 120 degrees for at least fifteen minutes The mercury thermometers of the sterilizing apparatus should be standardized Ordinary thermometers on sterilizers have been found to vary as much as 3 degrees Spring manometers are not suitable as their limits of error reach as high as 25 per cent However since new apparatus is not obtainable immediately steril ity may still be obtained with apparatuses gener ating a temperature from 120 to 110 degrees by prolonging the time of exposure Apparatuses per mitting a temperature no higher than tro degrees are of little value. It should be pointed out to the trade that blotting paper is impractical for inner wrapping Steam will penetrate through 2 lavers of firm sized paper Franz (Z)

#### ANÆSTHESIA

Jalco vitz A Spinal Arresthesia Induced with 5
Per Cent Novacain Solution with Special
Consideration of the Blood Pressure (Zur Frage der Lumbal anaesthesia mit 5 proz No o camlosung bei besonderer Berucckschtigung de Blutdruckes) II er im d II elinser 1930 i 1265

The author reviews 100 cases in which he induced spinal anæsthesia with a 5 per cent solution of novo

cain as recommended by Bier He employs rustless spinal puncture needles which are washed out with sodium chloride solution just before they are used The s per cent novocam solution is prepared freshly before each operation A small amount of spinal fluid is withdray n and from 2 to 25 ccm of the novocain solution injected. I revious to the injection the anysthetic is mixed in the syrings with double the amount of spinal fluid After five minutes at the most the patient may be placed in any de sired pos tion. After the operation he is kept in the flat dorsal position for twenty four hours In none

of the 100 cases reviewed vere there any accidents The most dreaded sequela of spinal anasthesia is the fall in the blood pressure which occurs to a greater or less e tent almost regularly Therefore special attention must be paid to the behavior of the blood pressure The author foun I that in persons more than flty years old the average maximum fall in the blood pressure was 57 mm Ilg v hereas in younger persons it was at mm Hg When caffein as given by subcutaneous injection immediately before the induction of the soinal anasthesia the

fall in the blood pressure in younger patients vas not influenced but the average ma imum fall in pat ents over fifty years of age was reduced to 36 mm He After the anasthesia the blood pressure curves re turned to normal in from forty five to sixty minutes The author never noted any serious complications such as respiratory or circulatory d sturbances or symptoms of intorication Even common accidents of a less severe nature such as nausea and vom ting were rare as were also postoperative sequela such as herdache and meningismus. The anasthes a was always complete

Spinal anasthesia is not suitable for laparotomies as it does not prevent pain from traction on the mesentery However in operations for herma it is preferable to local anaesthesia. In cases of incar cerated hernia care must be taken to keep the incarcerated loop from slipping back into the ab dominal cavity before it is inspected. As per stals: is inhibited experience is necessary to judge the via bility of an incarcerated loop of intestine. In the cases reviewed the duration of the anæsthes a averaged two hours MAXIMILIAN HI SCH (Z)

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Diocles L Telestereoroentgenography Am .
Surg 1931 7 499

As an introduction to the practical aspects of telestereoreortgenography the author discusses binocular vision in relation to stereoscopy and reviews the fundamental principles and the advantages of the different methods of stereoscopy.

He states that much of the stereoscopic roent genography that is done gives a defective plastic result. This is true especially as regards the larger cavities particularly the thorax and is due to fail ure to observe the principle formulated by Druner that the stereogram should be taken at a focal distance at least 4 times the thickness of the part examined.

In a methodical study pursued for more than three years and including the exposure of more than 15 coof films the author found that the most satisfactory results are obtained by the use of from 70 to roo an under tensions between 100 and 125 kv peak. He makes use of the principles of superstereoscopy which have given excellent results in other fields. For this purpose he evolved a special apparatus which he describes in detail.

In order to obtain all of the information which perfect stereograms can yield it is necessary to examine them correctly. The author describes the various methods in detail. He believes that prism binoculars are best because they allow very rapid examination without fatigue and are relatively cheap and easily transported. He describes different methods of examining stereoscopic reductions and the methods of obtaining projections in rehef

ADOLPH HARTUNG M D

Ratti A The Distribution of Energy in Deep Roentgen Therapy (La npartizione dell'energia nella roentgente apia profonda) Rad ol med 1930 VVI 1213

Our present knowledge of the distribution of radiant energy in the depths of the tissues is based almost entirely on measurements made with phantoms. It remains to be determined whether these measure ments are sufficiently accurate for use in roentgen therapy.

Rath hegms by reviewing the methods of research calling attention especially to the causes of error associated with the use of small ionization chambers. He then reviews the literature on this subject and reports the findings he obtained in a series of investigations made with the use of five different ionimeters in a small ionization chamber. He attempted to determine especially whether the lack of bomogeneity in the structure of the human body causes variations.

of importance in deep doses of irradiation. For this purpose he studied particularly the effect of osseous parts and cavities filled with air as compared with a screen of o 85 mm of copper. From his findings he concludes that in general the variations demon strated were not sufficient to decrease the practical value of the tables of deep dosage which are based on measurements made with a phantom.

Miescher G L The Single Limit of Tolerance

Dosage (Emmalige Hoechstdosis) Fortsch f

Rocalf istrahlen 1930 vli 64 94

Up to the present time two methods have been developed for the roentgen treatment of carcinoma In one the complete destruction of the carcinoma cells is attempted at a single treatment and in the other by a number of smaller doses given at inter vals A disadvantage of the second method as com pared with the first is its association with the still little known processes which are designated collectively as dispersion According to previous findings cells with an active metabolism collect the irradiation to a less extent than cells with a Jess active metabolism but on the basis of recent dis coveries it must be assumed that under certain conditions of irradiation the dispersion factor may be a favorable influence

Because of its accessibility skin cancer is well suited to the study of any form of cancer therapy The author has had many years experience with the single dosage method of intensive irradiation of skin carcinoma The technique of the irradiation is on the whole a simple one with doses of from 1 200 to 1 500 R units including secondary irradiation a field measuring 4 by 4 cm and filtration with from 2 to 4 mm of aluminum The results have been good a primary cure (without recurrence) being obtained in 80 per cent of cases of basal cell car cinoma and 75 per cent of cases of squamous cell carcinoma By means of subsequent treatment (irradiation or operation) the incidence of cure may be raised in the former to 94 5 per cent and in the latter to 805 per cent A comparison of these statistics with those of Berren shows that the results of radium and roentgen ray irradiation are practically alike

In infiltrating carcinoma the treatment described gives a cure in only 22 per cent of cases of tumor of the basal cell type and in only 28 per cent of those of tumor of the squamous cell type. A higher dosage is therefore necessary but in intensive irradiation the upper limit of dosage is 1500 R units. More than this might destroy the regenerative capacity of the cells of the epidermis. In infiltrating carcinoma the divided daily dose of Coutard may give good results.

Nuernbe 2 L The Bases of Late Injury from the Roentg n Rays as Shown by Experiments on Animals (Die t crexp m t lien ( ru dl ge zur Frg d Spaet ch ed gu g du ch I oentgen tahlen) St hi the ap 010 T T 1 412

The problem of germ injury from the roentgen rays has received increased consideration in recent years because of the experimental findings of Mueller who was the first to produce mutations in den flies by roentgen irradiation. This article is a critical review of experimental findings with regard to germ injury by the roentgen rays. The author first d scusses the concepts of germ and fetal injury and early and late impregnation. In contrast to concept of early injury (germ injury previous to the onset of roentgen stenlity) late injury from the roentgen rays after the cessation of roentgen sterility is still disputed

In re lew ng observations which have been ad vanced as indicating an injury of descendants in I te impregnation the author says that he entirely rejects the expe mental findings of Fraenkel (1011) He belie es that Fraenkel has not produced any definite proof of the occurrence of a late injury from roenigen ray irradiation and that the change in the entire organism of the irradiated mother animal nfluenced the gonads (somatogenic parallel induc tion according to Stieve of high numerous examples

are cited)

Of the other findings which have been advanced as n oving the occurrence of a late injury from the roentgen rays those of Lacassagne and Coutard (1923) a e critically reviewed The author does not accept the conclusions drawn by Lacassagne and Contard as he believes that it may have been a com mon stall epizoot c to which some of their irradiated anim 1 succumbed and not a special sensitivity to intestin I infections such as was assumed by them This appear probable especially as other couses of death come into consideration and the mortality

mong the descendants of the irradiated an mal was no h gher than that among the descendants of non

ir ad ated anim Is

To the well kn wn investigations of Little and Bagg ( 023) in which isolated individuals of the F generat n showed nomalies of the ey s and continued inbreed g it was possible in some in stances to produce up to 100 pe cent abnormal an mals the author r 1 es the objection that only two irrad ated pairs of mice of the descendants showed the eye anomal es (possibly no causal rela tionsh p but recessive he editary anfagen or spon taneous mutat ons) This objection is all the more valid because other invest gators have observed the occurrence of heredita y eye anomafes in non irradiated mice Moreove 1 ter invest gations (by the author Bagg and McDovell) could no fonger confirm the first finding

After rejecting the e perimental findings of Driessen (1924) the author takes up the in est ga tions of Pankow (930) Using a special techniq e Pankow irradiated only a single overy in rabbits and

compared the descendants from the irradiated and non irradiated ovary The former vere less numer nus and weighed less The d minution in the num ber of the animals that originated from the irradiated nvary is attributed by the author not to injury of the germ but to an injury of the ovary. The differ ence in the weight of the animals from the two ovar es was not marked

Before Nuernberger takes up the investigations on insects he de cribes briefly the anatomy of the female genital a and the chromosomes of the dew fly The occurrence of wh te eyed males in the in vestigations which were carried out by Mayor (1923 1024) is explained by non separation of the A chro mo omes May or attributed the development of the anomalous individuals to the injury of ova present shortly before the second or the first maturation

Whereas Mayor was able to cause only another division but no change in the heredity. Mueller was able to produce true mutations (lethal semilethal and vis ble) and thus nev hered tary propert es After revie ing Mueller's results which are of great importance ith regard to the problem of germ injur from the roentgen rays the author contends that it would be absolutely incorrect to conclude that Mueller's findings prove the occurrence of a late injury from the roentgen rays. In investiga tions carried out to determine why mutatio a did not develop in all of the irradiated germ cell in Mueller's experiments Harris found a relative net fectiveness of the roentgen rays on immature germ

After a short review of Whiti g s findi gs in ex periments on vasps (following temporary steril za tion normal males developed from unimpregnated ova) the author comes to the conclusion that evi

dence of a late injury from the roentgen rays has

not been produced in a single instance In the second and shorter part of the article the author reviews the numerous findings which have been advanced to disprove the occurrence of a late mury from the roentgen rays \gainst the find ng of investigations I mited to the F1 generation (Re gaud and Lacassagne Doederlein Foveau de Courmelles) the su t hable objection may be rai ed that the animal of the I's generation hich appeared after the ressation of the roentgen ster l ty although phenologically normal may have sustained a genetic injury which a ould become apparent only a fater generations Of the invest gations in which th descendants from inbreeding ere allo studied the author mentions in addition to his own tho e of Dyroff Robinson Lemamoto Bagg and McDonell All nf the observations show that from eggs that matured after the cessation of the roentgen steril ty phenologically and genet cally norm I descends t developed The author therefore dray s the co clusio that late myu y from roentgen r y irradiation has not been proved up to the present time and that the occurrence f a marked injury is improbable

W HE RITZ (G)

Naujoks H The Development of Children Born After Temporary Roentgen Ray Sterility of the Mother (Die Entwicklun, der Kinder die nach temporaerer Strahlensterilitaet der Mutter geboren wurden) Strahlentlerapie 1930 xxxx 1 572

The author presents an important contribution to the question of injury to the offspring from irradia tion of women who are still of the child bearing age After a brief review of the pre ent status of this question based on the most important of the works dealing with it he describes in detail the findings in and the development of six children in whose moth ers temporary amenorrhoa or sterility had been pro duced by roentgen irradiation. The children were examined with the belp of a pediatrician In all of the women the ovarian function had been completely interrupted for a long period (up to two years)

Although in the individual case the question of definitely ascertained injury from irradiation or definitely ascertained absence of mury from irra diation can hardly be answered the author believes that the presence of anomalies cannot be looked upon as proof that the child suffered injury from the action of the rays In order to preserve the scanty and hence all the more valuable material for later investi gations which alone can clear up the question of injury to the offspring he proposes that carefully collected data on children born after roentgen amen orrhæa in the mothers should he collected by a cen tral agency He suggests as such an agency the

Archiv des Kaiser Wilhelm Instituts fuer Anthropologie menschliche Erblichre und Eugenik Berlin

WEHEFRITZ (G)

#### RADIUM

Cappelli L Radioproteinæmia and Radio Anaphylaxis In Patients with Cancer Treated by Irradiation (Radioproteinemia e radio anafilassi nei cancerosi sottoposti a trattamento radioterap co) Radiol n cd 1030 vvii 1150

From immunological and biochemical studies made in the cases of patients with cancer who were subjected to effective radium irradiation Cappelli draws the following conclusions

The protein elements of the neoplastic mass which are resorbed as the result of radium irradia tion are split up locally by the action of proteolytic enzymes into amino acids and their derivatives and in this form pass into the blood from which they are eliminated by the emunctories

2 This heing the case the resorption of irradiated radiosensitive neoplastic masses is not followed by radioproteinæmia nor hy any allergic state (radio anaphylaxis) Moreover these terms should be aban doned as the human organism because of its enzymatic resources is always capable of preventing the entrance of toxic products into the blood stream following the decomposition of tumorous masses in the process of regression

# MISCELLANEOUS

#### CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Ruthe ford R True Hermapl roditism P c Ry Se Hd Lond 1939

Rutherford retorts the case of a to o year-old child who was brought to the bospital for the radical cure of a left inguinal hernia. Although the general appearance of the child was female the external gens talia resembled those of the male except that the testes could not be felt. At operation a uterus fal lopian tubes and sex glands were found in the hermal sac and on microscopic examination testicular tissue and fallopian tube tissue were discovered in the same block. The tunica albuginea was invaded by cords of cells among thich were those with the appearance of primord allova showing much clear to toplasm and ell defined nucleus. The teste contained semin ifernus tubules which were not canalized. One sec tion from the tunica albugines showed specialized female genital cells Because of the male an i female elements in the same gland the author considers this a case of true hermar broditism

In the discussion of Rutherford's report it was stated that men with similar findings have been known in progresse Care of V Bitemin MD

Link K II Traumatie (Edema and Forensic Medielne (f um t h b gut ht g) Md Ki O dem d U i li 930 897

In persons who are const tutionally predisposed to it traumatie cedema of the dorsum of the hand and foot occurs after light trauma which usually is not seve e enough to produce a loss of tissue con timuity It consists of a doughy or tensely stretched swelling f the affected limb associated with a change in the appearance of the overlying skin Usually slight atrophy of the hones is reveiled by roentgen e am nat on I am may be a termittent but al ays accompanies movement

In a case observed by the author that of a girl twenty years of age on whose foot a flat iron had fallen the ædema involved the back of the foot and the region of the malleoli. The patient e hibited sympathicotonia I cised tissue from the diseased part showed a chron c inflammat ry process of the subcutis and fasci vith marked involvement of the vessels and nerves of the skin

Artificial production of ordema by repeated blows and I gat on secondary edema and trophoneurotie cedema must be excluded in the differential di agnosis Treatment should be conservative Massage is to be avoided but penarterial sympathectomy may be considered. The condition is resistant and tends to recur The loss of earning capacity is less C L JANCKE (Z) than 50 per cent

Bejarino J Superficial Fpith flom ta (Fo m les d I ept l mas c ados) P g d la d n M dn I 1930 1 750

After a detailed discussion of the various cl cal and histological classif cations of superficial enitheli omata proposed by various authorities the author concludes that from the practical point of view there is no necessity for so much differentiation as the slight clinical and histological differences be ty een the various forms do not affect the treatment He believes that in the majority of cases the neoplasms are not precancerous tumors

AUDREY G MORGAN M D

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In a series of investigations Freund and Kaminer were able to sho that normal serum will d solve earcinoma ee'lls whereas the serum of persons suf fering from carcinoma does not possess a carcinoly tic property but on the contrary contains a carcin ophile substance thich inhibits the solution of car

cinoma cells by normal serum

In a search for the site of formation of these two antagonistically acting substances in normal and carcinomatous serum Kaminer found that while the organ possessing the greatest cytolytic power is the thymus the intestinal contents must be con sidered the site of origin of both substances heeause by the addition of fat it was possible to increase both the carcinolytic po ver of normal persons and the curenophile pot er of persons suffering from carcinoma Both substances one the r formation in the intestine to bacterial influences. By inoculating m lk enriched with butter fat and having a pif of 7 6 with a strain of colon bacillus obtained from a normal stool at was possible after from twenty four to forty e ght hours to obtain an ether soluble fatty acid which dissol ed carcinoma cells e en in a dilution of 1 10 000 Bacillus subtil s and bacillus alkaligenes did not produce this substance

The demonstration of the format on of the car cinophile substance—the carcinoma intestinal acidwas based on previous investigations of von Zerner which showed a weakly acid reaction of the contents of the small intestine in persons suffering from car cinoma A weakly acid nutrient medium (pH 4 8) consisting of milk butter fat and lactic acid vas moculated 1 1th the stools of persons suffering from carcinoma The carcinophile substance vas demon strated in the culture fluid in large amounts and transference of this culture first to ac d and then to alkaline agar plates yielded a pure cultu e of a

modified strain of colon bacillus which in the originally slightly acid milk butter fat culture formed carcinoma intestinal acid in large amounts. Wild bolz found that it does not reduce neutral red agrit forms a bouillon film and in littings whey it produces a reduction from below unwarf.

When the same culturing procedure was carried out with stools from normal persons and persons suffering from sarcoma no carcinoma intestinal acid was produced and the plates remained sterile. The protective substance against sarcoma cells could be obtained by inoculating a 5 per cent Witte peptone solution mixed with oil emulsion with the stool of a person suffering from sarcoma When first acid and then alkaline oil peptone agar plates were inoculated with this culture there resulted a pure culture of staphylococci which when transplanted to peptone solution yielded an ether soluble fatty acid having a pronounced protective power against a solution of sarcoma cells However the bacteria acquired in this way could not be subcultured by inoculation of a normal stool because the necessary pH and al bumin and fat content were not present

The authors hy no means wish to attribute the development of carcinoma or sarcoma to the presence of the intestinal bacteria described but are inclined to the view that the further growth of tumors occurs not only at the expense of the cell substance of the surrounding tissue but is favored especially by the protective fatty acids that are formed under the influence of a pathological in testinal flora. They found that mice with a car crinomatous intestinal flora which constituted roper cent of those used in their study are much more sensitive than normal animals to both inoculated carcinoma and experimental tar carcinoma.

In the practical application of these findings to cases of carcinoma the authors have attempted to alter the intestinal flora by disinfecting the intestinal contents withbolding animal fat enriching the food with carbohydrate free albumin oil and alkali and administering a normal strain of colon bacillus. This treatment has been followed by diminution of the pain the retrogression of tumors and even complete disappearance of carcinomatous formations.

HANS EHRLICH (Z)

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# PHYSICOCHEMICAL METHODS IN SURGERY

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GURD Canadian M Ass I 1030 xxiii 784 The so-called grant cell sarcomata H Simon Beitr z Llin Chir 930 cl 2 8

### General Bacterial Protozoan and Parasitic Infections

Focal infection and general disease F BILLINGS New lork State J M 1030 XXX 1308

Medical and surgical a pects of acute bacterial infections F P REPROLDS New York State J M 1930 XXX 1307

The diagnosis and treatment of sepsis A Buzello Chiru g 1030 ii 817

The prevent on and treatment of wound infections perionitis pneumonia septicæmia and blood clots F W BANCROFT New York State J M 1930 xxx 1471

The s misca ce and t eatment of hactenamia The hactenophage I o HERELLE New York State

VI 930 TXX 1400 Milestones in the history of inoculation H \ STAF FORD J Roy Army Med Corps Lond 930 1 406 The serol recal differentiation of the flexner group of

bacilli R. I BRIDGES J Roy Army Vied Corps Lond 930 lv 401

The treatment of erysipelas with vaccines W T BENSON Lancet 1930 CCXIX 1286

Bacill s abortus infection (und lant lever) C A Poss W Gosling and H Baker J Med Soc New Jersey 930 xxv 963
The diagnos s and control of undulant (malta) fever

I F ORR Ohio State VI J 1930 XXVI 1023 An unusual case of undul nt fe er H GOLDSTEIN J

Med Cincinn ti 193 xi 529
Tetanus ra New O leans A M Graves Ann Surg

1930 XCB 1975 A case of postoperative tetanus its de elopment and treatment in the light of modern stud es J Szynovowicz

Polska gaz fek 1929 n 8r6 Diagnost c tuberculin reactions the Mantoux versus the

Crang test R P FORBES a d C L STEINBERG \m J D s Child 1930 xl 1230 Inherculosis of the skin and its treatment ADAMSON Pressemed Par 1030 xxx 1 1383

N. J. 930 lv 48
Tl. zmiss ep tof two cases F. J. Jieka. Ill os
M. J. 93 l 447
Tl. zmis M. chg. n. J. L. Muzerer J. Vitch g a
Stat. M. S. 93 l 977 g 1 toppyzma due t
tapphyto cush kem lyt c s. C. G. Roberter J. hat M.
A. 193 xx 79
B. cten 1 gy d the cl. 1 ma fest toons of atr ptococcal d as s. W. Leinsan. 193 Be! Sp. inger
'Aca of t-typtoc c isspit-ermant 1 d why cents.

Tularæmi a da case hit y H R KEISER Ill no s

### **Ductless Glands**

The dag twice fills gartina e creeked in path B \ GLASSBERG \ h I t Med 930 | 984

The fict of a ten rp to tary extract o the delping albin mose GE Jornson and RT Hutz. Endoconlogy of a rv 400.

The effect of hypophysical preprious of hippode of the blood F Gronger Zitsch ferpe Med 193 lux 303.

The effect here is arrowed in him acceptant is here.

olsm W RAAB Indoor 1 gy 93

H spitals Medical Education and Hist ty
Wh tuns ensity: tactsmeant the teach ghop tal
R.C. Buttant Vold II p 030 xxx v40
The h p tal—an 1 d try e crybody was J A
VCVaxax Vold II p 03 xx x v40
The turnel hop tal an 1 x x x medical p gress
II so the control of th

### Medical Jurisprudence

M d coleg l g fcant f the sere tific erim d tecti l borat ry of h th term U rs ty C Go DARD Mil S rgeo 930 L 1 759-

# International **Abstract of Surgery**

Supplementary to

Surgery, Gynecology and Obstetrics

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## CONTENTS

I Index of Abstracts of Current Literature 111 51 II Authors Abstracts of Current Literature 417-477 TTT IV Bibliography of Current Literature 478 504

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# CONTENTS-MAY, 1931

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		EGIDT G The Treatment of Traumatic Craniocere bral Lesions with the Exception of Gunshot Wounds	423
MASSON P A GIART NEUTONEVUS OF the Harry Scalp DUPOTEMENTER L Notes on Cancer of the Superior Maxilla  Eye GOLDENBURG M and FABRICANT N D The Eye in the Tuberculous Patient HARBRIDGE D F Eye Injuries in Epileptics SORSIN A Latent Nystagmus STUTTEREIGH N A Indicat ons for the Kinetic Treatment of the Eyes DUANE A Accommodation PAVIA L Pigmented Degeneration of the Retina  Ear  FRASER J S Maldevelopments of the Auricle Ex- ternal Acoustic Meatus and Viiddle Ear Vii crotia and Congenital Meatal Atresia MCNENIE D The Pathogeny of Aural Chole Stoynamon J A Contribution to the Bacteriological	417 418 418 418 418 418 418 418	GIACOBER C The Treatment of Cranuccrebral Traumanta Except Gunshot Wounds in Military Medicine AKBERT O and MASCHERPA F The Use of the Roentgen Rays in the Treatment of Cranuccrebral Trauma  Spinal Cord and Its Coverings FRAZIER C H Shall Syringomyelia Be Added to the Lesions Appropriate for Surgical Intervention?  PURSETP L Two Unusual Cases of Compression of the Spinal Cord—Localized Arachnoidits and Extramedullary Tumor—With Dissociation of Sensibility as in Syringomyelia  GRANT F C The Value of Chordotomy for the Relief of Pain  Sympathetic Nerves  DANIELOPOLY D The Present Status of the Surgical Treatment of Angina Pectors  MICHON L and HOUX J Remote Results of MICHON L and HOUX J Remote Results of	423
Study of Suppurations of the Ear Caused by Aerobic Pyogenic Bacteria	419	Interventions on the Sympathetic Particularly the Presacral Nerve in Gynecology	444
Nose and Sinuses		CYTO CERTAL ARE THE CHARGE	
GAY A E Tumors of the Nasopharynx	420	SURGERY OF THE CHEST	
Neck		Chest Wall and Breast	
ROMANIELLO G Variations in the Iodine Content of the Thyroid in Pregnancy and in the Fetal		BLOODGOOD J C Borderline Breast Tumors Amorost Endothelioma of the Breast	427
Thyroid	420	IOEL W Cystic Disease of the Breast (Reclus) Its	427
WALTERS O M ANSON B J and IN A C The		Origin and Malignant Degeneration	427
Effect of X Rays on the Thyro d and Parathy roid Glands	420	RUBINACCE G Carcinomatous Mastitis and Carcinoma of the Breast in Pregnancy	4 8
Brown A The Influence of Cer ical Paravertebral Anaesthesia upon the Pulse Rate During Opera- tions Upon the Toxic Thyroid Gland	421	Trachea Lungs and Pleura	40
BOOTHBY W M HAINES S F and PEMBERTON	-	NELSON H P and Stuon G The Accessory Lobe	
J DEJ Postoperative Parathyroid Insuff ciency Negus V E Observations on Semon s Law	421 422	of the Azygos Vein SMITH D T The Etiology of Primary Bron	428
A E UPMARK E A Study on the Parathyroid En	422	chiectas s	428
largement in Oste tis I ibrosa Generalisata	456	VECCHI 1 Pneumectomy	429
		Attes D S The Treatment for Penetrating Wounds of the Pleural Cavity	430
SURGERY OF THE NERVOUS SYSTEM		Contract No.	
Brain and Its Coverings Cranial Nerves		Esophagus and Mediastinum	
Mock II L. Skull Fracture and Cerebral Injuries	423	Foreign Body in the G-sophagus	43 t

411

412

433

434

434

434

435

435

436

436

437

437

437

418

438

439

45

430

440

44

Ro sis alle Histolog cal Chang s in th Thymus ol Pr pubesc nt kabbits Treated wth Non Spec he Pregnancy Hormon's I'xp me t 1 Study of the R I to sb tween the Thymu the Gen tal O gans

### SURGERY OF THE ABDOMEN

### Abdominal Wall a d Pentone m

FITCH E M Som Cau es of Fa fure 1 th Ope 2 t e Tr tme tof Ingun I II ma

B NDSCREE B I Perit 1 With ut I fo at n 432

### Gastro Intestinal Tract

LE WALD L T Roe tren Dag o s I Gastric Syph 1 JACARELLI T i He edity : th

Citto Path ge e ol G stroduod n l Ul ΕL d Lis JR I ptr and Duode I

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### GYNECOLOGY

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KEEB Cyst c Ad n ms of the Ce

I BEEDWAY \ Age P rood Changes in th Cervix Uter w th specs I Refe ence to Ca c D velopm nt Pr sa JR The Quest f the D elopm t f

Cancer the Cr cal Stump Vite S btotal livst rectomy W firehou E B Ut ring Ham ith go with Special

44

442

442

443

444

42

4 3

446

446

110

447

447

448

418

443

419

449

kirn t Malgna t D seas Bo Es \ Th Tech qu d Results of Myorac tonly

Adnexal and Persutenne Cond tions

STEVE II Studes in the II man Overv Mayre R Contribution t the O est of Fu et n I T mors of the O aries E pecially These That Led t Dimonutat M scul o gat A rhen bla tomata

### External Genit La

TUREN E 1 C ng n tal Absenc of th 1 gina

### M scellaneou

Ro sis the Hitlacal Changes at the Thym I Ir subesce t R bbits Treated with Specife I egn cy Horm es Experim ntal Study of the k latio s betw n the Thymu a d the Cen tal O gans

MICHON L and HAOUR J Rem t Re ults of n the Sympath tie P rt cularly I t event th P esa ral Ners n Gy ecol gy

### OBSTETRICS

### Pregnancy and Its Complications

Lu viello G V rat n nth Iod f the Thyrod a Ir gan cy and a th Tetal Thyro d

Ren vices C Carein matous VI stitus and Carei noma of th Br to I g nev

OLEN W H F The kole f the G n ral I ract 1 tenat I No L 100 A Stat tical Study f Pl c ta

LECKHAR C II î x tth Jhs Hopk as H ptal DUR ATE BE L JELA D & Be Pl e tal

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BLAND P B GOLDST ! L a d WEY CH D H I gnal T h mo s i the Pr g 1 Cl lad Morphol 5 c 1 Study

CCTRIN 1 Sb s Utre Myom ta P egn ncy

### Labo and Its Complications

Have P Th I flet fluftial R ptu the Memb e nth Pogress f Lab r

INTERNATIONAL	ABS	TRACT OF SURGERY	v
Puerperium and Its Complications LE LORIER TZANCK and DALSACE Immunotrans		Speed & The Blood Serum Calcium in Relation to the Healing of Fractures	459
fusions in Puerperal Infections	449	Janz G The Healing and Late Results of Fractures of the Elbow in Children	460
Newborn		PLABODY C W Disruption of the Pelvis with Luxation of the Innominate Bone	460
BOCK A Congenital General Hydrops	450	CUTLER C W JR Fractures at the Condyles of the Femur	461
GENITO URINARY SURGERY		KLINNEDY R H Fracture of the Shaft of Both Bones of the Leg	46
Adrenal Kidney and Ureter		LORENZETTI C The Closed Method of Treatment	
Braasch W F Anomalous Rotation and Asso- ciated Anomalies	451	of Fractures of the Ankle Joint BOEHLER L The Diagnosis Pathology and	461
Munoz Abun and Lira Renal Ptosis and Appendicitis	452	Treatment of Fractures of the Os Calcis	462
LOZZI V and VITALE A The Pyelovenous Reflux	452	SURGERY OF BLOOD AND LYMPH SYSTE	MS
PIERACCINI P and LUCARELLI G An Experimental Study of Hydronephrosis	452	Blood Vessels	
SALLERAS J Painful Slight Hydronephrosis Its Treatment by Enervation of the Renal Pedicle and Nephropevy	453	SAITO M KAMIKAWA K and YANAGIZAWA H A New Method for Roentgenography of Arteries and Veins in the Living	463
RODRÍGUEZ MOLINA L F and HERN INDEZ ISÍNEZ  J The Present Status of the Study of Urogeni		WARWICK W T Valvular Defect in Relation to	463
tal Tuberculosis PIERACCINI P The Physiopathology of the Ureter	453	STRICKER P and ORBAN F E perimental Investi	4-3
Subjected to Forcipressure	453	gations of Arterial Thrombosis Arteritis Gan grene and the Comparative Value of Arterial	,
HEPBURN T N Denervat on and Displacement of the Ureter for Kidney Colic	454	Ligation and Arteriectomy	464
Bladder Urethra and Perus		Blood Transfusion	
AHUMADA CORREA and VARGAS Syphils of the Bladder	454	Speed k The Blood Serum Calcium in Relation to the Healing of Fractures	459
Salleras J The Results of Electrocoagulation After Suprapubic Cystotomy in Malignant		Lymph Glands and Lymphatic Vessels	
Tumors of the Bladder	455	L ESPERANCE E S Stud es in Hodgkin's Disease	464
SILBAR S J Para urethritis	455	WARTHIN A S The Genetic Neoplastic Relation ships of Hod kin's Disease Aleukæmic and Leukæmic Lymphoblastoma and Mycosis Fun oides	46.
SURGERY OF THE BONES JOINTS MUSC TENDONS	LES	Aucae J The Neoformation of Lymphat c Glands	465 465
Conditions of the Bones Joints Muscles Tendons	Ete	SURGICAL TECHNIQUE	
COLES W B Multiple Mycloma ASK UPMARK L A Study of the Parathyroid En	456	Operative Surgery and Technique Postopera	tive
largement in Osteitis Fibrosa Gene alisata	456	Treatment	
STEINDLER A The Tabetic Arthropathies DAVENPORT H K and RANSON S W Contracture	457 457	Dr Martel T Guillaume J and Lassery M The Use of Bird's Muscle as a Homostatic Agent	466
Resulting from Tenotomy MEYERDING H W Spondylolisthesis	457	Antiseptie Surgery Treatment of Wounds and Infections	
HEBRANT The Climatic Treatment of Surgical Tuberculosis	472	ALTANA G Bacteriophage	466
		HANSEN J The P mary Treatment of Wounds	467
Surgery of the Bones Joints Muscles Tendons Hibbs R A Risser J C and Ferguson AB	Lite	FELSENREICH F The Results of Essentially Opera tive Treatment of Wounds	467
Scollosis Treated by the Fus on Operation An End Result Study of 360 Cases	458	Anæsthesia	
CONTARGYRIS A The Correction of Drop Foot by Posterior Arthrodesis	459	Brown A The Influence of Cervical Paravertebral Anasthes a upon the Pulse Rate Duning Opera- tions upon the Toxic Thyroid Gland	421
Fractures and Dislocations SPEED K Plaster Embedded Skeletal Tract on Its		BIANCALINA L. Clin cal and Experimental Study of Certain D sturbances Associated with Spinal	4.1

Anresthesia

468

459

SPFED K Plaster Embedded Skeletal Tract on Its
Use in the Treatment of Fractures

42

433

463

47

478

430

MELZNER P A ertin	The Indu		Anæsthe	ts with	
		3.522			

# PHYSICOCHEMICAL METHODS IN SURGERY

### Roentgenology

WALTERS O M ANSON B J and IVY & C Th Effect of X Rays on the Thy id and I ara that d Gl nds

ALBERTI O nd MASCHIFFFA F The Use of th Roentgen Ray in the Treatment f Cramoc re

b al Trauma LE WALD L T R entgen Dagno I Gastrie Syphil s

S 170 M LAMIK WA L and LANAGIZANA H A Yew Method ! Roentg n g phy ! Irt res ile n the L ng

LIBELIN B R ad MORTON S \ Roentgenolog cal Changes in Sar d nd I lated Les o

HERE DELY R E R s lt n the Roentgen Ray Th rapy f G ant C ! Tumors

#### Radium

( RON WATSON SIR C H w For C # Radum Replace Su gery i r Ca cer f th Rectum?

#### M scellaneous

Th Results of Ele t occarulat n SALLERAS T After Suprapub c Cystotomy in Malgna t

Tumors of th Bladder

455

473

#### MISCELLANEOUS

Chutal Entities-General Physiological Conditions

LERICHE R R sea of es and Crit cal Reflections of Pain the Mechanism f Its Production and the 424 the Lath rays of Lan Sens bl ty

HEBRANT The Climatic Tre tment I Su gical T b reul sus 472 SLGUI A L. The Infl ence of Extracts f th

Sup read Cort x is the Growth f Ca cun ma Sarcoma and Mela oma in Animals

HANDLEY W. S. Th. Pole of Lymph Stasis in the Genesi f Cancer 4 3 MAYO W J Susceptibility to Cane r

473 WARTHIN & S Th Hered ty of C a er in W a 414 Horrus I L Cancer and Smok ng Hab ts 414

NAESTEND I Mult tle Primary Mal gna t T mo s 474

Chite G W The T eatm at of Mal gn acy 474

# BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Unnary Surgery	
Head Eye Ear	478 478	Adrenal Kidney and Ureter Bladder Urethra and Penis Genital Organs	494 495
Nose and Sinuses Mouth	479 479 480	Miscellaneous	495 496
Pharynx Neck	480 480	Surgery of the Bones Joints Muscles Tendo	ns
0	•	Conditions of the Bones Joints Muscles Tendons Etc	496
Surgery of the Nervous System		Surgery of the Bones Joints Muscles Tendons	498
Brain and Its Coverings Cranial Nerves Spinal Cord and Its Coverings	481 481	Fractures and Dislocations	499
Spinal Cord and Its Coverings Peripheral Nerves Sympathetic Nerves	482 482	Orthopedics in General	500
Miscellaneous	482	Surgery of the Blood and Lymph Systems	
		Blood Vessels	500
Surgery of the Chest		Blood Transfusion	500
Chest Wall and Breast	482	Reticulo Endothelial System Lymph Glands and Lymphatic Vessels	500
Trachea Lunos and Pleura	482	Lymph Giands and Lymphatic vessets	501
Heart and Pencardium	483	C	
Esophaous and Mediastinum	483 483	Surgical Technique	
Miscellaneous	483	Operative Surgery and Technique Postoperative Treatment	501
Surgery of the Abdomen		Antiseptic Surgery T eatment of Wounds and In	501
Abdominal Wall and Peritoneum	483	Anæsthesia	502
Gastro Intestinal Tract	484	Surgical Instruments and Apparatus	502
Liver Gall Bladder Pancreas and Spleen	486		
Miscellaneous	487	Physicochemical Methods in Surgery	
Gynecology		Roentgenology	502
Uterus	487	Radium Miscellaneous	502 502
Adnexal and Periuterine Conditions	488	Miscensucous	302
External Genitalia Miscellaneous	489 480	Miscellaneous	
Obstetrics	, ,	Clinical Entities—General Physiological Conditions General Bacterial Potozoan and Parasitic Infec	503
		tions	504
Pregnancy and Its Complications	490	Ductless Glands Surgical Pathology and Diagnosis	504
Labor and Its Complications Puerperium and Its Complications	492 493	Experimental Surgery	504
Newborn	493	Hospitals Medical Education and History	504
Miscellaneous	493	Medical Jurisprudence	504

# AUTHORS OF ARTICLES ABSTRACTED

**\b** d 45 Ah mad 454 Alb ti O 4 4 Allen D S 430 Altana G 466 Am os 47 1 lm: 0 k J 447 A B J 4 o A m ur J C 436 A k Upm k E 456 Auché J 465 B de R 438 B cal n L 468 B chi A E 434 Bl d I B 448 Bloodgood J C 427 Bock A 450 Bo bl L 462 B ho J 4 9 B y 44 rino Uda d C 435 R Boothby W 11 4 ch W F 4 Bown A 4 Bown T G 436 Bu d ch h L 432 C \ 438
Ch to P 438
Coley \ B 456
Conta gyn \ 459
Conta in Γ 449 Co ea 454 Cril G \\ 474 Cutl C \\ J 46 D gnino A 437 D lsac 449 lop 1 D 426 D D pot II K 457 D VI rt 1 T 466 Doh ty W D 44

De en E 437 D e 1 418 Dufo m tlL 47 Du 1 p D M 436 D ra te 446 Fgd G 43 I b cant \ D 48 l'ise r ch 1 467 l'erguso 1 B 4 8 Titch Γ VI 43 Fras JS 49 Fa CH 424 Lredm N 441 GyAL 40 G bbe C 423 Goldenb rg M 48 Goldst L 445 Go don W tson 5 C 439 Goye a J R 434 Grat F C 4 5 G ll m J 466 Ha S F 4 II dl ) \ S 473 ii b dg 1) Г 418 II bra t 47 H pb en T N 4 4 II dee II 5 de R E 47 II 4 de Ib4 J II bb R \ 458 II km F \ 437 11 ffm F L 474 II fim F 447 II t F L 434 Ivy A C 4 J c II L 434 Janz G 460 1 W 4 7 K 463 Kamik

edy R II 46 K kli B R 470 La Hay P 440 Lamble g \ 438 Las ry \ 466 Le Lo e 410 Lm l d 446 L h R 47 LF p ranc E S 464 L Wald L T 433 Ln 45 L JR 434 Lo enz tt C 46 Loz V 452 Le !! G 45 Vi ll t G y P 430 Mach rp I 44 Masso P 4 7 Mayo W J 473 Mck nze D 4 9 M I F 468 Иy K 443 1 11 W 47 My d Mich L 444 Mill T G 436 Mt h ll T C 436 M k II F 4 3 Mot S \ 47 M 6 45 Naesl 1 1 474 Ngu 1 2 4 Nh km 43 Neo H I 428 Ob I 464 Oly | H I 446 O I y W 21 1 449 P to L 418 Pe body C W 460 Peckh m C H 446 P mbert J d J 42 P y 447

P ci P 4 P sa J R 44t P spp L 44 Ra so S W 457 R b 44 R J C 48 R drgu Mol LF 453 Rmall G 4 2 all 444 R 1 d R P 44 Rbncc G 48 S t VI 463 S llera J 4 3 455 5 ty P 439 Set L 448 Slb S J 455 Smo G 4 8 Sm th D T 4 8 S by 1 4 8 Sped k 450 St dler A 47 St w rt M J 437 St e 11 442 St cke I 464 St ff B 448 St tt hem \ A 4 8 S ra h 473 T e A 444 L 449 \ ga 454 \ c b \ 4 0 \ tal \ 45 \\\alt m O \\ Wan nate O H 43 Wa the 1 S 45 474 W cl. W T 463 Wen ch D H 448 Whith use B 442 11 463 1 g 2a

# INTERNATIONAL ABSTRACT OF SURGERY

MAY 1931

# ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

### HEAD

Masson P Giant Neuronævus of the Hairy Scalp Ann Surg 1931 xcut 218

The author helieves that pigmented moles are formed essentially by abnormal proliferation of the ends of the tactile nerves that nævi are neuro neurinomata of tactile nerves and therefore not derived from connective tissue at all as has been

supposed hy some

The specimen which is the subject of this article was taken at autopsy from a child of three years who died of hronchopneumonia. A decided elevation of the entire hairy scalp was noted The hairs were sparse revealing a white epidermis which everywhere was smooth and flat Palpation gave an impression of soft elasticity and vague fluctuation suggesting phlegmonous infiltration Incision revealed an enormous (2 cm) thickening of the derma and hypoderm which were fused together in a perfectly white homogeneous tissue This represented a generalized almost smooth pachyderma of the entire hairy scalp

Histological examination showed two layers of equal thickness. The deeper layer corresponded to the hypoderm whereas the more superficial layer was compact and corresponded to the fibrous derma

The deep zone consisted mainly of the tumor cells known as nervoid bundles a multinucleated and plexiform syncytium which was differentiated fre quently into gigantic tactile corpuscles and traversed by connective tissue septa containing voluminous arteries alongside which ran medullated nerve fihers The superficial zone varied at different points. In places the fibrous tissue was normal and free from foreign cells At other points the tumor bundles had completely invaded so that when the papillary layer of the skin was reached they were grouped in masses of cells rounded or in columns and many of them contained melanin pigment unequally distributed

The tumor thus possessed all of the histological structures of a mole or a neuronævus. It was of extraordinary dimensions. It should be classed with the smooth pachydermias of the hairy scalp It differed from ordinary nævi in the enormous development of the deep zone which formed a vast fasciculated and plexiform neurinoma at least r cm thick and in the hune size of its corpuscles further peculiarity was the inconstancy of the epitheloid cells which were found at certain points in the superficial zone often too distant from the epidermis for an epidermal origin This feature was of interest in showing that a nævus may he formed without any involvement of the epidermis all of its elements even the superficial epitheloid cells springing from the cutaneous nerves

MAURICE MEYERS M D

Dufourmentel L Notes on Cancer of the Superior Maxilla (Notes sur le cancer du maxillaire supé r eur) Bull et nêm Soc d chirurgiens de Par 1930 X II 745

Cancers of the superior maxilla present several peculiarities which gives them a very distinct in dividuality These peculiarities are

The relative frequency of epithehoma in young

2 The strictly local development of the condition in most cases. The lesion may become very serious locally without affecting the general health

3 The indisputable curability of certain cases which appear desperate

The author reports four cases The first two show that while cancer of the jaw in young adults can he cured repeated operations may he necessary to eradicate it. In the first case the initial operation was performed ten years ago

The mutilation need not prevent an active life As long as the tongue and the hase of the skull are not involved the breach may he hidden and the ingestion of food and phonation accomplished normally by the use of a prosthesis

In the third case reported the patient survived fourteen years

The operative technique must be adapted to the particular lesion. Vs a rule the orbital floor may be preserved descent of the eye being thereby avoided In nearly all cases the fir t st p should be lighten of the external carotid.

### EYE

Goldenbu g M and Fab icent N D Tielve in the Tube culous Patient 1 1 Opt h 93

Because of the frequent statement that e<sub>2</sub> eleasons are rare in pulmonary tuberculosis the authors made an exhaustive study of the eyes of 1778 patients 073 of your hom had proved tuberculosis Seven sho e<sup>2</sup> patholog cal changes in the ins and 10 sh; e<sup>2</sup> d fundus changes that could be considered as tuberculosis.

Harbridg DF Eye Injurie in Epil ptics im

The autho reports three cases of injury to the eye during an epileptic attack. In one the globe vas avul ed in a fall on a stick of wood. In another the cyclids and eyes ver injured by a fall into a caetus plant. In the third the vound produced by the extraction of a senile cataract vas opened a very after the operation and a deep pustular tearts in decloped. Suryer A Dur. N.D.

So sby A Latent \satagmus B 1 J Ophil 193

While earlier observers were acquainted with lather in stagmus the Fromagets are credited with establishing it as a clinical entity. Under this name they have reported cases in which there was no nystagmus hen both eyes were open cases in

hich nystagmus v as present hen both eyes were open if the eyes were either converging or in e t eme positions and cases in which nystagmus vas present normally v hen both eye vere open hut became considerably more marked v hen one eye was c verel.

These cases sh v that exclusion of an eve either converts a latent nvstagmus into a roamfest nystagmus or makes a manifest nystagmus more marked VI GLWESOUT M D

Stutte heim N A Indicatt n fo the kin tie
Tr atment of the Fy s B t J Oplin 93
M g ih S pp V

This exhaustive monograph includes a summary of the literature on con ergence mauficiency and gives the author's own theories with regard to the condition

Asthen vergence is defined as eyestrain in the presence of insufficient motor coordination sub-ering fusion of the ocular images. Numerous cases in which good results were obtained from kindle treatment are reported. The treatment was carried out by the ocul st with a modified Hazen kratom eter. Si use A Dy M D.

Duane A Accommodation teh Optib 103 1 No one in America has contributed more no ou how ledge of accommodation both se entire and practical than the late Dr. Verander Duane A. No Ars. Duane has consented to the publication of some of the chapters for in the book. Oc lar Musel a thack Dr. Duane lad nearly completed at the time of his death. This article feals with some of the author's wall known of the author's wall known of the author's preshops physical and physiolog cal accommodation and the author's researches in this field.

ANGUL WESCOTT ALD

lavía L Pigmented Degene ation of the Retina
(B g nera 6 p gm nt in de 1 r t n ) Rev lon o-oft im l y d g l 193 \ 535

Pigmented degeneration of the retina is classified as a retinos is its course is slow and progressive. The classical signs are hemeratopia changes in direct and indirect vision and the appearance of foci of mementation.

The author reports the case of a man fifty four years of age which in some respects was atypical. The patient was under observation and treatment from February to September. For three years he had notice I that his vision failed as might came on. Both disks: ere excavated and the retina showed a mig of clororetural atrophy of the sen let type. The pigmentation v as more marked in the left eye than in the right. The Wassermann react in was negative. Direct vision was normal. The changes in undirect vision are sho in in d agrams.

Three courses of treatment were given. The fist consisted of a daily dose of 12 pills of yaten for fifteen dass the second of 3 daily dose so hep atoglycerol for thirty days and the thirl of the daily administration for four weeks of a tubes of e tract of life. The three pinning of july the 181 fields showed improvement. By the first of Septem ber direct vision had lecre sed. The variations in indirect vision from month to month ere unusual since in the typical case indirect vi ion decreases constantly and propresses level.

From the relati e preservation of direct vis on the integrity of the fovea the reaction to treatment and the lact that and ect vision as fairly good the con centric decrease for white not having become any worse and the feld for red having enlarged the author concludes that the prognos s in this case is rather good for the patient sage. The lack of sensitiveness to blue he attributes to the ret nal lesions. The partial absorption of the p gment sho in photograph ically confirme I the theory of Krueckman that a pathol gical condition of the retina 1 a necessar) prelim nary to the infiltration of pigment and that the pigmentation is secondary and caused by the atrophy of the retina The decrease in the pigments tion and the improvement in ind rect vision in the case reported indicate slight regre sion of the le ons and prove that the treatment v as logical

AU IY GO MO CAN M D

#### EAR

Fraser J S Maldevelopments of the Ausicle External Acoustic Meatus and Middle Ear Microtia and Congenital Meatal Atresia 1rch Ololaryngol 1931 2011

The author states that the external and middle ears are developed from the first visceral or pharyn geal cleft and the first and second visceral arches The inner or medial part of the first cleft forms the eustachian tube and tympanum while the outer or lateral part is converted into the auricle and external

acoustic meatus

Microtia and congenital meatal atresia are due to maldevelopment of the structures mentioned. The maldevelopment must occur in the second month of fetal life. There is malformation not only of the auricle external meatus and tympanum but also of the malleus and incus which arise from the cartilag mous bar of the first arch. The malleus is especially prone to maldevelopment. Moreover the laterohyal which is formed from the cartilaginous bar of the second arch is usually excessively developed and in many cases is responsible for the bony meatal atresia. The cause of the malformation is probably a fault in the germ plasma, but in rare cases mild deformity of the auricle may be due to intra uterine injury.

The tubercles that form on the external surface of the first or mandibular arcb do not develop in the normal manner Auricular deformity varies from sheht malformation such as the pointed or darwinian

ear to total absence of the auricle

The invagination of the surface epithelium which forms the primitive external acoustic meatur sails to develop or develops imperfectly. In consequence the tympanic ring which is formed by ossification of the mesoblast around the tympanic membrane is congenitally defective or absent. The meatal atresia may be membranous or bon.

The otic vesicle from which the membranous labyrinth is formed develops earlier than and quite independent of the external and middle ear. The labyrinth is usually normal in cases of microtia and

congenital meatal atresia

In a typical case the auricle is malformed or ab sent the external meatus is occluded by bone the malleus is small or absent and the incus is large and misshapen. The tympanum is narrowed not only from above down ward but also from side to side and the window niches are occluded by connective tissue. The facial nerve is usually small and may cross the tympanum uncovered by bone

Microtia and meatal atressa are not rate. They occur more frequently in males than in females and more often on the right side than on the left side. They are more frequently unilateral than bilateral in rare instances they occur in more than one member of a family. Facial paresis maldevelopment of the mandible facial hemi atrophy and other congenital deformities are often associated with them.

Hearing tests usually show the results obtained in lesions of the sound conducting apparatus but even in bilateral cases the human voice is usually heard well enough to allow development of the patient s speech (Toynbee) Functional examination by means of rotation tests usually shows the vestibular

apparatus to be normal

In unlateral cases operation should be performed only when otitis media and mastoiditis are present on the affected side. In bilsteral cases operation is indicated only if the deafness is marked and roent genograms and functional examination show that the laby rinth is normal (Marx)

JAMES C BRASWELL M D

McKenzie D The Pathogeny of Aural Choles teatoma Proc Roy Soc Med Lond 1931 xxiv 332

The author discusses the manner in which growing epidernal cells gain the interior of the tympanic antral and mastoid cavities to form aural choles teatomata. In rare cases these tumors occur as primary growths without suppuration, but in the otological literature reference is generally made to

the secondary type with suppuration

The formation of cholesteatomata has been at tributed to the immigration of cells transformation or metaplasia of cells from irritation suppuration and desiccation. As a primary cholesteatoma may form in the temporal bone without antecedent suppuration and as suppuration is not found in it until after the occurrence of rupture into the tympanum with secondary infection it is open to question whether the condition is ever the sequela of suppuration. The author discusses the origin of primary cholesteatoms of the temporal bone

Cholesteatomata showing a structure identical with that of aural cholesteatomata bave been found in the subarachnoid cistering at the base of the brain. This fact suggests that such growths are formed by the inclusion of epidermal cells during embryonic hie. The author favors the inclusion theory. He is so convinced of the primary nature of cholestea tomata that he believes the theory attributing them to suppuration is based on error in the interpretation of chinical and pathological findings.

GEORGE R MCAULIFF M D

Bonnahon J A Contribution to the Bacteriolog act Study of Suppurations of the Ear Caused by Aerobie Pyogenic Bacteria (Contribution & Iétude bactériologique des suppurations auncu laires a m crobes pyogenes aérobies) irch internat de laryngo 1330 xxvi 857

Bacterological examination should be practiced systematically in suppurations of the ear as it gives valuable information with regard to the prognosis and treatment. In acute suppurations the bacteria most frequently found are streptococci and pneumo cocci. Ottits complicated by mastorditis particularly that of bæmatogenous type and septicæmia are generally caused by streptococci. In pneumococcus infections there is less tendency for the condition to become generalized and the prognosis is more favor.

able. However infection due to the pneumococcus of the third type pneumococcus mucosus is particularly to be feared because of the enormous de structive lesions associated with it and the fact that it is frequently propagated to the meninges

In staphylococcus mastordins which is the most being form a very small drain may be used or the wound may be closed completely. In streptococcus mastordits the wound must be drained freely and frequent cultures must be made as the streptococcus may remain virulent for a long time and cause serious late sequelæ such as thrombophlebitis and men incitis.

instance of the control of the contr

Serum therapy seems to be successful only in pneumococcus infection. The anii pneumococcus serum of the Pasteur Institute seems to be effective against all but the mucous pneumococcus mucooccus fluman blood either normal or prepared by immunotransfusion seems to be preferable to horse serum. Auptury Go s Mosan MD D.

### NOSE AND SINUSES

Gay A Tumors of the N sopharynx (T m es del sof rinx) S m & 1930 6 3

The author reports twelve cases of tumor of the nasopharynx and supplements his report with sketches of the operations photographs of the patients and photomicrographs

He d ides nasopharyngeal tumors into fve gr ups (1) the n sal (2) the auricular (3) the ga gl onic (4) the nervous and ocular and (5) the m ed

He states that as the symptoms of tumor of the nasopharynx are at first the same as those of other affects in molying the same region a careful rhinopharyngoscopic e amination for tumor should be m de nevery case presenting nasal paranas I or a nicular symptoms

The prognosis depends to a great extent on the time at which treatment is given. In cases of nasopharyngeal fibroma treated early the prognosis is very faro able. In cases of in Ignant tumor the operative prognos is favorable but there is always.

danger of recurrence
For the teatment of fibromata Gay recommends
only diathe mic coagulation ith the technique and
instruments of Samengo which he shows in illus
tr tions. For malignant tumors he recommends
d athermic coagulation by the same technique either
alone or combined with deep roentgen and radum
therapy depend go nit he clinical form of the tumor
and the period of its development when the treat
ment is begun. Aurors. Goss Vio c. M.D.

### NECK

Romanlello G Variations in the Iodine Content of the Thyroid in Pregnancy and in the Fetal Thyroid (s li etual vara o dleot ut in jodo della t de i g v d za ed lla trod fetal) Arch d it eg c 930 xx 76

The chief of the obstetrical and gyrecological climic at Stenia Spinito concluded from his nivetti gations some years ago that the thym discreases in size during pregnancy and still more so during labor and then decreases rapidly in the purpersum with two slight insee on the fourth and seventh days that the increase during pregnancy is due chiefly to hyperzemia and retention of colloid and to a less degree to hypertrophy that the increase during the purpersum in side only to hyperzemia and that the histological and microchermical changes show hyper function. These conclusions were later disputed some gyracolog sits even claiming that there is hypo function of the thyroid during pregnancy.

The author studied the problem by Fabours method of firing sections of the thy rod with pal ladium chloride and ro per cent formain and examing them microscopically with or without staning When this method is used the iodine appears in the form of black granules. The experimental animals were guinea pigs at various stages of pregnancy and the puerpenum. Non pregnant guinea p gs were

used for controls

Romanciel found that in the pregnant airmal the
vesicles of the thyroid were increased in size while the
cells assumed als o cubical form. The colloid stained
more intensely than in the non pregnant animals
because it was denser. The lakely inding graules
were more numerous than in the non pregnant
animals the increase heing in proportion to the stage
of the pregnancy. In the puerperium, the indine
content rapidly returned to normal.

The thyroids of embry os and fetuses did not give any reaction by this method. No odine could be demonstrated in the thyroid until several days after thirt. This finding refutes the generally accepted theory that the sodine of the thyroid has an important effect on growth. It is possible home or that the sodine requirement for growth may be suppled by the mother is thyroid.

AUDREY GOSS MORGAN M D

Walters O Mt Anson B J and Iry A C The Effect of A R ys on the Thyr id and Para thyroid Glands R d I zy 931 xv 5

Several attempts have been made in the past to determine the effect of irradiation on the thyroid gland. The results were rather inconclusive as the an mals were killed to soon after the irradiation. In the investigation reported in this article v high was carried out on dogs the animals were killed at vanous intervals up to nine months after the treatment.

A technique and dosage ident cal with that used in the clinical treatment of hyperthyroid sm was employed and followed by histological examination of the thyroids Only a slight change in the nature of hyperplasia was revealed. When a dosage sufficiently excessive to produce ulceration of the skin was given the capsule of the gland was found to be thickened although the parenchyma was hittle altered.

Doses such as are used in the treatment of hyper thyroidism produced hyperplasia of the parathy roids. In the dogs which were allowed to live for several months following the treatment a definite increase in the connective tissue and in spite of the hyperplasia a gradual slight decrease in the blood calcium were found.

It is pointed out that these results do not neces sarily apply to the hyperplastic thyroid or Graves

disease which is a different problem

The results indicate that the clinical dosage used in the treatment of hyperthyroidism will not injure the parathyroids

Charles H Heacock M D

Brown A The Influence of Cervical Paravertebral Anæsthesia upon the Pulse Rate During Operations upon the Toxic Thyrold Gland Surg Gynee & Obst 1931 ln 25

The use of sodine in the pre operative preparation of patients with goiter has proved of great value in preventing collapse during the operation and decreasing the danger of thyroid crisis after the operation. Nevertheless whatever the type of ansisthetic used for the thyroidectomy, the pulse becomes more rapid during the operation and the neces ary operative manipulation places added strain on the already over stimulated heart.

The impulses which control the rate of the heart beat reach the heart through the sympathetic and parasympathetic and parasympathetic nervous systems—the accelerator impulses through the former and the depressor impulses through the latter. The fihers of the sympathetic nervous system through which the accelerator impulses are conveyed arise at various levels from the sy mpathetic ganglionated cord which extends from the superior cervical to the fourth thoracic ganglion and may he divided into three groups—the upper the middle and the lower. The upper group includes the superior and middle cervical cardiac branches of the sympathetic the middle group the lower cervical cardiac nerve which arises from the lower cervical ganglion and the lower group the upper thoracic cardiac nerves.

Considerable accelerator stimulation of the beart is therefore carried by nerves which have their origin in the upper portion of the neck in close protunity to the points of emergence of the four upper penind cervical nerves and the transverse processes of the four upper cervical vertebrase.

From investigations of the influence of cervical paravertebral anæsthesia on the pulse rate during operations on the toric thyroid gland the author draws the following conclusions

r Cervical paravertebral anæsthesia anæsthetizes the upper cervical nerves the upper cervical sym pathetic ganglion and the upper part of the sym pathetic cord

2 After the induction of this anisathesia these nerves are incapable of transmitting accelerator impulses to the heart and the moderator impulses of the vagus reach the heart opposed only by the accelerator impulses through the lower cervical and upper thoracic cardiac branches of the sympathetic. As a rule these are not strong enough to overcome the vagus completely and the pulse rate falls

3 During subtotal thyroidectomy for hyper thyroidism cervical paravertebral anæsthesia everts a definite slowing effect on the rate of the pulse

4 As cardiac shock is reduced under para vertehral anaesthesia the operative procedure does not diminish the patient salready weakened reserve and the postoperative course is smoother and associated with less cardiac reaction than when other types of anæsthesia are used R B V SHER MD

# Boothby W M Haines S F and Pemberton J deJ Postoperative Parathyroid Insufficiency Am J M Sc 1931 clxxx1 81

Postoperative parathyroid insufficiency is a syndrome characterized by a decrease in the serum calcium accompanied by irregular intermittent at tacks of tetany and in the later stages constitutional changes of a trophic nature. It is due to surgical extirpation or trauma of the parathy roids which results in more or less complete cessation of the functional activity of these glands. It may occur when a standard operative technique is used and therefore is often unavoidable.

On account of the ranty of this syndrome it is difficult to obtain a sufficient number of cases for observation of the symptoms and the effect of different methods of treatment. During the sivy seris from 1924 to 1939 inclusive thyroidectomy was per formed at the Mayo Clinic approximately 13 300 times. The ratio of female to male patients was approximately 3 1 Parathyroid insufficiency was not noted in any of the male patients in this series.

In acute postoperative parathyroid insufficiency the tetanic spasms including laryngeal spasm can he controlled by the administration every two hours of a generous teaspoonful of powdered calcium lactate dissolved in water. In the more severe cases in which there is difficulty in swallowing 5 or 6 additional teaspoonfuls of calcium lactate dissolved should he given by proctoclysis. The intravenous administration of calcium chloride is necessary only rarely and the administration of parathormone is hardly ever required in the immediate postoperative period.

In the milder cases of chrone postoperative parathyroid insufficiency (in some of which the insufficiency is probably not complete) the condition can sometimes he controlled by the regular ad ministration 4 or 5 times a day of 1 teaspoonful of calcium lactate dissolved in water and 2 or 3 teaspoonfuls of cod liver oil daily Irradiated ergosterol may he used instead of cod liver oil but as yet the

dosage advisable for long periods has not been determined

In the more severe cases uncluding those in which the insuffciency apparently is complete para thormone must also be administered. As in all deficiency diseases the medication must be continuous and regular. In the pre ence of complete deficiency it must probably be administered in lefinitely. It is known that a quantity of the active principle of the thyroid gland which will not cause serious trouble when given in a single dose may if given repeatedly cause marked hyperthyroidism and even prove fatal It is pointed out also that the use of parathormone in large doses 3 high may be safe if for a short period may be harmful if con-tinued for a long period. In general it has been found that for continuous administration only small doses such as 5 units daily or 10 units every other day should be used. In some cases hovever to units every day and occasionally 20 units daily for short periods vill be necessary. The use of larger doses over any considerable time is probably danger

Under treatment i the calcium lactate and cod it evol or irradiated ergosterol such as has been out lined even patients; ith severe and apparently com plete parathy roud insuff cancy case be maintained no good if not perfect health. If the parathyroid in suff ciency is less severe and apparently not complete the patient can be maintained in good con dition vithout parathermone if suitable doses of calcium lactate and cod liver oil or irradated ergosterol are administered

Negus \ E Observations on Semons Law J La, g1 & Ot1 1931 xl 1

The larynx consusts of a sphincteric guidle the adductor muscles which close it and a group of dilator or abductor muscles which open it. Semon in 1885 called attention to the tendency of the abductor fibers of the recurrent laryngeal nerve to become affected sooner than the adductor fibers in peripheral disease or injury and in disease of roots or peripheral disease or injury and in disease of roots or trunks of this nerve. This is evidenced by the fact that if the recurrent laryngeal nerves are pressed upon or the function of these nerves as disturbed movements of closure may still be possible but not movements of distatton.

The author reviews the comparative anatomy and anatomical structure of the larg via rectant shand mammals the mechanism of closure of the larging during deglutition in different animals the anatom scal structure of the larging which allows simultal neous respiration and deglutition in certain species and the mechanism of voice production in man and animals

These observations indicate that the sphincteric band has a vital function and originated earlier in the scheme of evolution than its antagon sts the dilators William Presert MD

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS CRANIAL NERVES

Mock H E Skull Fracture and Cerebral Injuries
Internat J Med & Surg 193 xliv 1

Mock discusses skull fracture and cerebral in juries on the basis of his last 100 cases. He stresses the importance of prolonged rest in bed. He states that roentgenograms should always be made hut that the roentgen examination should he delayed until the patients life will not be jeopardized by the manipulations incident thereto. He regards lumbar puncture as an important procedure when it is indicated but believes it should not be done as a routine measure. Leo M. DAYMOPF W.D.

Egidl G The Treatment of Traumatic Cranio cerebral Lesions with the Exception of Gun shot Wounds (Trattamento dei lesioni eranio cerebrali t aumatiche escluse quelle da arma da fuoco) Riforma m d 1930 XIVI 16 2

As depressed fractures of the skull even when deep rarely cause signs of compression of the brain many surgeons advise against operating upon them According to others systematic operation should be done not only for correction of the hone deformity but also for treatment of the lessons of the hrain and meninges that often occur at the site of the depres sion and may later cause epilepsy even when they do not produce immediate symptoms. If the dura and brain are injured a search should be made for penetrating bone fragments and if any fragments are found they should be removed. The dura should then be sutured the breach in the bone repaired with the fragments and the skin sutured In open frac tures the wound of the soft parts should be cleansed and trimmed and any bruised or necrotic tissue All bone fragments should be removed and the edges of the dura regularized If absence of pulsation indicates compression of the brain a larger incision should be made and hæmatomata and bruised brain tissue removed Closure of the wound is probably less dangerous than drainage but if in fection develops the wound must be opened at once

Intracranial hematomata may be diagnosed by spinal or cannal puncture and by roentgen examination after the subdural space and ventricles have been filled with gas. The gas may be introduced directly into the lateral ventricles or by lumbar puncture. As there is some danger in the introduction of air in recent injuries the author advocates exploratory puncture of the skull in such cases particularly those with signs of compressions.

The treatment of diffuse traumatic cerebral compression includes the treatment of fracture of the base of the skull The latter is responsible for most of the deaths from trauma of the skull The mor tality of fracture of the base is 50 per cent, and more than half of the deaths occur within the first twenty four hours Decompression should be done early and systematically for if the compression reaches the paralytic stage treatment may do harm instead of good Debydrating treatment should be given at once and at the same time an exploratory cranial puncture should be done to determine whether the compression is caused by a hæmatoma. If the result of puncture is positive the hæmatoma should be aspirated. If it is negative the dehydrating treat ment should be continued for several weeks. When magnesium sulphate is used to obtain dehydration signs of intovication are rare but there is a possi bility of causing too great dehydration If the pulse becomes rapid from dehydration the magnesium sulphate should be stopped and fluid should be given In some hospitals this treatment combined with repeated lumbar puncture has been adopted in place of decompressive trephination

Dehydration therapy is absolutely contrain dicated in cases of hypothermia with a rapid pulse from loss of blood and in cases of shock with a low blood pressure and a rapid pulse and respiration Such cases should be treated with heat and stimu lants as any further dehydration might be fatal When shock is associated with cerebral compression there is not much hope but in some cases life may be saved by the immediate intravenous injection of small amounts of glucose solution for the shock and puncture of the ventricles or lumbar puncture for the compression When the shock is over dehydrat ing treatment with magnesium sulphate may be The treatment depends on the pulse and respiration. If the pulse is over 120 fluids should be administered if the respiration is less than 20 or irregular dehydration is indicated. The tempera

ations are more important than their absolute values
Death from brain trainin is due to disturbance of
respiration but as the medulla frequently does not
show any demonstrable lessons it is probable that
some of the lesions are functional and remediable
If life can be prolonged by artificial respiration
function may return Aupust Goss Mosax M ID

ture and pulse should be recorded as their vari

Gacobbe C The Treatment of Craniocerebral Traumata Except Gunshot Wounds in Nill tary Medicine (Trattamento dei traumi cran o cerebrali esclusi quelli da arma da fuoco n med c na military) Rip ma med 1930 vly 1628

The author reviews 257 cases of craniocerebral

Cases of simple cerebral concussion without frac ture should be treated by the application of an ice bag to the head and the injection of stimufants. In rare cases of persistent headache lumbar puncture is followed by immediate relicf. In the author's treatment of open fractures operation is performed at once unless the intensity of the shock or the seriousness of the associated lesions prevent it. The yound is cleansed the edges of the skin are trimmed free bone fragments and clots are removed and as a rule the wound is completely closed. In early cases the results are ery good but in those treated late they are less satisfactory because of infection Operation is performed also in eases of depressed fracture unless the den ession is a mere flattening of the n rmal curvature of the skull in a s lent zone with no symptoms of compression. In closed linear fractures operation is performed if there are signs of irritation or compression. In any case careful disinfection of the region is of great importance. In fractures of the base the treatment of choice is lum bar puncture combined 1 ith cleansing of the nose ear and pharynx

In none of the cases re leved was it necessary to pe form subtemporal t ephination a high is used in place of lumbar puncture in blocking of the foramen magnum In all of the cases complicated by men ingo encephal tis death resulted. Serum and protein therapy may be tried in such cases as occa sionally basal meningitis may become localized fike persions and operation may then be performed with some chance of success If infection occurs lo v treph nation of both temporal regions n th sub dural d amage may be tried. The immediate injec t on of urotropin is also recommended as the uro tropin may pass into the spinal fluid and prevent the development of bacteria that a e not ery vitu lent Operation is indicated in jacksonian epilepsy In cases with subjective symptoms such as head ache d zz ness insomni and irritabil ty lumbar puncture is indicated. For cases of headache and chronic dizziness from meningeal adhesions. Pen field suggests the injection of air after the removal of spinal fluid. This causes an immed ate reaction associated ith headache and vomiting but in from 50 to 70 per cent of cases is followed by cure

In the author \$ 257 cases there ere 44 deaths a mortainty of 712 per cent Twenty one of the deaths occurred with n the first thi 13 s x hours. In cranicocrebral traum the danger is due chiefly to the sever ty of the concussion the more or less diffuse compression from harmorrhage and the effects of hypertension on the medult. Most of the author's patients vho died in the first thirty si hours had associated serious abdomm I and tho race lessions.

AUD V GOSS MORKAN WID

Albertl O and Mascherpa F Th Ue f the Rontgen Rays in ti Treatment of Crani cerebral Trauma (il do r dolga o ni t att m nto d t mic e b i) Rf m m d tog i 652

The authors emphasize the necessity for close collaboration between roentgenolo ist surgeon and neurofogist in the treatment of craniccrebral injuries. They review the different types of fracture of the skulf describe the technical devices necessary for roentgenography of the different regions and discuss the causes of error in the interpretation of roent genorating.

They have used encephalography in more than 300 cases. This method is particularly important in demonstrating the sequelæ of cerebral trauma which often can be shown in no other way and in determining the indications for operation. The authors describe details of technique which render the method.

In discussing the late results of cranoplastic oper ations they state that bone defects if left to them selves never fil with bone If an autoplastic bone graft from the skull issued the bone structure a drontigen operating will be preserved but if the graft is taken from the tibia it will almost always be absorbed.

The rocatigen rays may be employed in the treat ment of eramocerebral injuries to promote more rapid absorption of extravasations or newly formed connective tissue and to correct conditions of intra crainful hypertens on "upper Goss Moggo, MD

### SPINAL CORD AND ITS COVERINGS

Frazi r C Ii Shall Syringomyella Be Added to ti e Lesions Appropriate for Surgical Inter ntion? J Am 31 At 93 C 19 t

The author reports a case of stringomycha m high I e obtained impro-ement in the symptoms by surgical intervention. In a review of the literature he found that the first operation for the condition as performed by Punssepp who reported his expe riences in the surgical treatment of two cases in 1926 Since Puussepp a original contribution only four other articles on the surgical treatment of syringomyelia have appeared—one by I uussepp one by Foerster one by Schmieden and one by Oppel Puussepp has operated in four cases obtaining manifest impro c ment mail In the one case operated on by Schmieden the operat on was followed by definite improvement in the movement of the arm and leg and in sensation Oppel has performed seven operations on six pa tients with results varying from negative to excellent DAVID J IMPASTATO M D

Puu epp L Two Unu ual Cases of Compression of the Spinal Gord-Localited Arachnolditis and Extram dullary Tumor-With Di soci tion of Sensibility a fin Syring, myella (D) c c ecept els d c mp es d ha c m c e experience de la companie de la companie

The first case reported was that of a man twenty to o sears of age who entered the clin c March 6 1929 complaining of weakness in all of his limbs cramps in the legs and retention of urine. The ptent had had scarlatina and measter.

and in 1936 took a rest cure for pulmonary tubercu losis. In December 1928 he fell on the ree sustain mg a shock to the spine which kept him in hed for a week. After this injury he suffered from pain in the hack in the region of the shoulders and weakness in the left hand. In February 1929 he first noted weakness cramping and a loss of sensibility in the legs. On March 4 1929 intermittent retention of urine and constipation began and a marked increase in the weakness of the hand was noted.

The patient was of average size and in a satis factory state of nutrition Physical examination revealed marked weakness in all of his limbs and flaccid paralysis of his arms. The weakness was especially marked on the left side. The triceps and bi ceps reflexes on the left side were absent. The legs showed marked rigidity and evaggeration of the reflexes The Babinski reaction and ankle clonus were present on both sides Because of spastic pa ralysis of the legs the patient was unable to walk The triceps and biceps muscles showed a reaction of degeneration. In the region between the thoracic and fourth lumbar nerves there was a marked dimi nution of sensibility to pain and temperature Tac tile sensibility diminished. There was ptosis of the left evelid The pupils were equal The cerebro spinal fluid was clear and transparent. It showed a trace of albumin but no pleocytosis The Wasser mann and Sachs Georgi reactions were negative Lipiodol introduced into the spinal canal hy sub occipital injection was arrested at the upper level of the sixth cervical vertebra

Laminectomy performed under local anasthesia in the region of the sixth and seventh cervical and first thoracic vertebræ revealed marked thickening of the dura mater and arachnoid and a cystic accumulation of fluid. The membranes of the cyst were formed by the arachnoid and there was a depression of the cord at the site of the cyst. The cyst was evaquated and the thickende arachnoid removed.

Three months after the operation the patient was walking normally his muscular strength had re turned and the ptosis had disappeared

In this case the spinal cord was compressed by a localized meningitis (arachnoidits) The clinical symptoms seemed to suggest an intramedullary process either a hæmatomyelia or an intramedullary timer.

The second case was that of a man forty eight years of age who entered the clinic complaining of weakness and cramps in the legs and weakness in the back. For two years he had noted great fatigue on walking and four months previous to his entrance to the clinic he had fallen from a ladder. A month after the accident he began to have girdle pain and pain about the umblicus. Spinal puncture per formed at a hospital was followed by aggravation of the symptoms. The spinal fluid was normal.

The patient was of average size well developed and in a good state of nutrition. He had a slight facial parallysis on the right side and a slight ptosis of the right eyelid. The pupils were equal. The legs showed considerable muscular weakness. The arms were stronger but there was some weakness in the left arm. The muscles of the legs showed marked spasticity and exaggerated tonus. Patellar and ankle clonus was present on hoth sides but more pronounced on the left side. Cutaneous sensibility was disturbed below the fourth thoracic vertebra. Sensibility to touch was only slightly changed whereas sensibility to pain and temperature showed a marked decrease.

These findings suggested syringomyelia central hamatomyelia or intramedullary tumor. The subsequent development of the symptoms especially the development of the Brown Sequard syndrome suggested a tumor casuing lateral compression of the cord and a suboccipital injection of lipiodol seemed to show a tumor at the level of the first thoractivertehra.

At laminectomy performed at the level of the first and second thoracic vertebre under local anesthesia a subdural tumor measuring 3 by 1 by 0 5 cm was discovered On histological evanimation this was discovered to the an eurinoma. There was a secondary dilatation of the spinal canal due to pressure of the tumor and the accumulation of find.

A month after the operation the patient had re covered nearly completely JACOB E KLEIN M D

### Grant F C The Value of Chordotomy for the Relief of Pain 1nn Surg 1930 xcn 998

Grant reviews the development of chordotomy discusses its neurophy sological basis and technique and reports the results of fifty one chordotomies per formed on forty eight patients at the Hospital of the University of Pennsylvania. Thirty one of the forty eight patients were males. The average age was forty seven years. Blateral chordotomy was done in twenty nine cases and unitateral chordotomy in twenty two. Thirty nine of the operations resulted in complete relief of the pain eight in 75 per cent relief and two in no relief. The causes of the pain included malignancy of the gento uniary tract or vertebre a gunshot wound of the spine sarcoma of the hip retropersioneal sarcoma painful stump and tabetic crises.

The author believes that chordotomy is a better and easter procedure than section of posterior roots supplying the painful areas. He thinks the indications are definite in non malignant condutions with intractable pain such as tabetic crises osteo arthritis painful stump and gunshor wounds While he believes that in cases of malignancy in which survival will be brief the patient must him self decide whether the operation should be done he is strongly in favor of it in such cases and urges that patients be referred to the surgeon before the debilitating effects of the primary disease make the surgical risk too great

In the discussion Frazier like Grant gives credit to Spiller for conceiving the operation. He stated that although the procedure has a sound physiological and anatomical basis and although on

many occasions clinical demonstrations of its effect have been made general practitioners are in general un informed regarding its possibilities and be be lieves that relati ely few special sits in urology and gynecology know what relief the operation would afford their patients with inoperable pelvic cancer fle called attention to the development in the tech inque we ereby the operation may be done under local anasythes a and the fibers so selected that pain alone may be eliminated and other forms of sensa toon including temperature sense left inter-

LEO M DAVY OFF M D

### SYMPATHETIC NERVES

Dani lopolu D The Pesent Status of the Sur geal Treatment of Anglina Peto (Let tld time thingel de lagne d pot) P méd Pa 93 v 1789

The auth r reports the results in twenty eight cases of angina pectors in hich were treated by suppress on of the pressor reflex to the heart. Cutting press on of the pressor reflex to the heart. Cutting the eard to active cent uperal fifters will break the refle. These fibers are d stributed between numer own nerves of the thoraceocerven's region. All of these nerves may be cut or resected except the vague which centre in the enempted if their smantains ig the tonus; if the respiratory center and the stellute ganglion though via chip assis the accelerator f bers and coronary vasodilators. In dops the sino cutotte reflex is relatively unchanged after a coronary or

myocatdial ligation when the stellate ganglion remans intact but shows protound changes when the stellate ganglion is cused. Lenche and Fonta is though laworing excision of the stellate g g on found and sputable changes in the electrocardiograms inter its excision in dogs. Evidence and grams inter its excision in dogs. Evidence on that excision of the stellate ganglion is dangerous is furnished by eases treated by Jonnesso a Logistic furnished by eases treated by Jonnesso as a cise death occurred within four days after the operatiyath conductions such a scutte critema of the lugs

and asystole of the left heart The operation performed by the author con sts of cervical sympathectomy (without the inferior ganghon) with section of all of the vagus branches descending vertically toward the thorax (dep essors included) and of the rami communicantes which unite the inferior cervical and first the acic ganglia to the last three cervical and first the acic ne es and the nerve fbers accompanying the vertebral artery This operation was done in tventy eight cases without accident. In most of the cases the attacks ceased or became less severe. In ally to eases was the operation pe formed on both sides The cases in which the attacks ve e merely lim ished in intensity and frequency vere among thos in which it was done only on the left side. The cases vere not selected. In eases of angi with attacks of asystole the asystole eeased after the pe tion The authors belie e that exci ion of the stell te s dangerous and unnecessar) Curt s h 1504 MD

## SURGERY OF THE CHEST

CHEST WALL AND BREAST

Bloodgood J C Borderline Breast Turnors inn Surg 1931 vcm 235

A number of pathologists designate as borderline breast tumors those lesions which are difficult to diagnose clinically microscopically or macroscopically Formerly tumors of this type were observed arrely as women were apt to delay seeking advice regarding lumps in the breast for a year or longer and during this time many beingn lesions disappeared and malignant tumors developed positive clinical and microscopic characteristics. In cases of borderline tumors the diagnosis is rendered difficult by apparent inconsistency between the microscopic and clinical findings. Not infrequently this is due to a marked difference between the training of the surgeon and pathologist in their respective fields.

Bloodgood reports a case in which Halsted operated for supposed adenocarcinoma in 1895 Re examination of the microscopic section in the light of our present knowledge shows that the condition was undoubtedly chronic lactation mastitis He says that the pathologist now understands the microscopic picture of chronic lactation mastitis and is not likely to be confused by the remarkable epithelial changes in a lactating breast which is the site of inflammation. He emphasizes that every pathologist should constantly restudy sections of chronic lactation mastitis and of all other borderline tumors seen by him Definite benign tumors con stitute 50 per cent of breast lesions The borderline lesions are generally benign. When they are con sidered malignant a greater number of five year cures were reported Bloodgood cites also a case in which in 1897 Halsted did a complete operation for a breast tumor because the pathologist made n biopsy diagnosis of adenocarcinoma During the sixteen years the patient was traced there was no recurrence Bloodgood now diagnoses this tumor as a non encapsulated benign cystic adenoma

In removing 2 blue domed cysts Bloodgood removed some adjacent breast tissue which showed solid duct adenoma. The microscopic picture was confusing but was called beingin although most pathologists tend to regard it as malignant. A similar microscopic picture was seen in 10 per cent of 210 cases of single or multiple blue domed cysts. In Schimmelbusch s or Reclus disease the breast is filled with small cysts and confusion with cancer is even more common than when only a few large blue domed cysts are present. In 1006 Bloodgood made a diagnosis of adenocarcinoma in a case of chronic cystic mastitus of this diffuse type. After a partial operation the pittent lived nuneteen years.

without recurrence

Various stages of chronic cystic mastitis cystic adenoma old fibro adenoma rapidly growing intra canalicular myroma all forms of tuberculous and pyogenic mastitis and changes in the breast after recent injury must be looked upon as borderline lesions. There is no question that the number of such lesions is increasing. ALTON CCHISTER M D

Amorosi O Endothelioma of the Breast (Lendo telioma della mammella) Clin ch 1930 vi 1106

By some it is believed that endotheliomata of the breast are very rare and by some that they do not occur at all. The nuthor attributes these theories to confusion with regard to the bistological picture and the fact that the neoplasm may resemble carcinoma very closely. He reports the case of a woman of cighty years describing the bistological findings in detail with photomicrographs. He believes that if all supposed carcinomata of the breast were carefully examined it would be found that many of them are endotheliomata.

It is not always possible to distinguish hammango endothelomata from perithelomata. In some cases these two forms are distinct but in others the tumor cells invade both the intima and the perivascular tissue. Neoplasms of the latter type should be called merely endotheliomata or vascular tumors of the breast. With carful examination they can be differentiated clinically and histologically from card nomata.

AUDERY GOSS MOROM MD

Joei W Cystic Disease of the Breast (Reclus) Its Origin and Malignant Degeneration (Die Malade Lystique (Reclus) der Brustdruese ihre Entstehung u d ihre maligne Entartung) Wg natssehr f Geburtsh u Gynack 930 Ivxv 338

The author's discussion of Reclus disease is pre ceded by a brief review of the development of the mammary gland. In Reclus di ease macroscopic examination discloses in one or both breasts diffuse more or less large cysts with greenish tenacious contents Chnical symptoms are not always present Microscopically there are found between un changed enlarged or atrophic portions of the gland lobules with dilated end chambers and excretory ducts Askanazy showed that these are not obstructions because the lining epithelium is increased in height and multiple layered epithelial proliferation is noted and in single layered epithelium the spin dles are parallel with the greatest diameter during karyokinesis. According to the author's studies the spindles do not he this way in multiple lavered epithelium The typical picture of Reclus disease is sometimes described as chronic cystic mastitis In addition the author occasionally found cyst for mations with proliferating papilla in the lumen (impellins, force the connective tissue). He bel eves that the latter structures have nothing to do with Rechu disease. They are intracystic papillometer disease. They are intracystic papillometer disease and believes that the moment the epithelia mature the basis for the tumor is pre ent. This may also become carenomatous. Hentire gland lobules still within the membrana program are filled with epithelial columns the patient should be treated as the contraction of the properties of the properties of the contraction. A radical operation is indicated that the candicult. Fitness of the breast plays no tole in this of sense.

In conclusion the author states that when treat in tumors of the breast we must determine whether we are dealing, with fibro adenomata (tumors in which the connective issue predominates over the epithelium) with simple or retention cysts or with Reclus disea e a condition which may ery readily become malignant as a result of epithelial proideration. He was a constitution of the proideration.

Rubinacci G Carcinomatous Mastitis and Car cinoma of the Breast in Fregnancy (Matt cam m tosa t m mma 10 m g vidanza) Ragnatad in tep 330 m 753

The ovarian hormones especially luten bring about 2 yearpla in of the breast in pregnancy. The reticulo endothelial system is sadely diffused in the breast and participates in functional hyperactivity of the gland. In studies carried out on pregnant mue the author found that luten brings about changes in the stroma which improve the nutrition of the epithelial cells and allow them greater liberty of growth. This observation is in accord wit the histological changes which have been found to occur in the development of carcinom arous masteries.

The author presents histological findings which show the transition of functioning marinary ressue into tumorous hyperplas a with concurrence of these changes in the stroma and particularly in the reticulo endothelial system. He emphasizes however that these are only concomitant factors in the development of tumor the cause is still unknown.

### TRACHEA LUNGS AND PLEURA

Nelson H P and Simon G The Accessory Lobe of the Azygos Vein B ! H J 931 1 9

This rather unusual title refers to the a ygos lobe of the right lung which is formed when during embryolog cal development the lung bud instead of growing lateral to the azi gos vein as normally go is directly toward the vein. The resulting issure in the lung then contains the zygos vein and can be seen in the toentiquongara as a fine white line which starts at the right of the sternum in the second intercorstal space and runs cephalad to divide the aper of the lung into two lobes the inner one of which is the azi gos lobe

In only one case in the literature was this and tomical variation of pathological importance. In this case the anygos vein had so compressed the bronchus lead ng to the accessory lobe that bron chiectatic cavities were found in the lung beyond the stenosis.

Willow Batter VID

# Smith D T The Etiology f Primary Bron chiectasi Ack S rg 193 xx Pt 2 1113

I many bronchuectass is characterized by non tuberculous ulcerations and dilatations of the larger broach with a chronic course a distressing cough and large amounts of sputum which may be very foul

The essential leuon destruction of the elastic cort of the broachus is caused by focal hercons due to infection by the fusospirochital group of an acrolac organisms which include treponema macro dentium treponema microdentium spirochata vin centi spirochata buccals withins and cocc. In active cases the organisms are constantly present in the spiritum and by similable staining methods can be demonstrated deep in the dissues of the diseased broach. With this group of organisms broachus the case comparable to bronchiectas a in man may be produced in rabbits.

The special methods for the examination of the sputum for the spirochetes and fusiform bacil a e

described in detail

Of 100 cases of non tubertulous bronchial discase bronchetlaiss was demonstracted in 60 by the sodized oil method. In 82 per cent of the eases of bronchetcass the huo pirochest group of organisms was found. In a number of the ca-es of bronchetcass which nere treated by postural drasnage and repeated courses of neoarepbenamies or sulpharappenamies the suprocheties disappeared first the fusiform breilli and the vibrios next and the cocca last.

Bronchiectasis may begin in one of three ways in some cases a membranous evidate forms on the surface of the bronchial wall and ulteration takes place beneath this toyering. More commonly the anterobic organisms can e bronchopneumonia in which certain of the terminal trouch are tilling solidly with etudate. The organisms then invade the bronchial wall and cause bronchiectasis by destroying the elashic tis we support in a third group of cases the bronchiectasis develops in the bronch in which a lung absense is draund.

In 8 of 12 cases which came to autopsy spire chates and fusiform bacilla vete found in sections of bron had dilatitions stained by Levadits method In 4 of 6 other cases fusiform bacilla were demonstrated in sections stained by Goodpasture's

method

In a series of 3 experiments on rabbits in which the sample aspirat on method was used fusospirochatal raterial from p) orthog alveolaris acute fuso spirochatti I ronchitis and pulmonary abscess raused brouchiectasis as well as pulmonary abscess and gangrene Control inoculations with pure

cultures of staphylococcus aureus aerobic hæmo lytic streptococci anaerohic hæmolytic streptococci green producing streptococci anaerobic streptothmix Friedlaender s hacili and influenza bacilli failed to produce permanent damage to the bronchi

The author concludes that the fusospirochætal group of anaerobic organisms are responsible for

primary hronchiectasis

In the discussion of this report Lord (Bostini) stated that Smith's work had caused increasing attention to be paid to spirochaetes and fusifirm bacilli as etiological factors in abscess in the lung He said that as a rule bronchectasis develops as a complication of a bronchopulmonary disturbance and the pathological process in the lung is usually more important than the bronchial dilatation

HEDBLOM (Chicago) stated that there are numer ous causes for hronchiectasis the most important of which are the acute infections occurring in child hood bronchopneumonia occurring at any age the various conditions that result in permanent ate lectasis and those that produce an extensive fibrosis of the lung including fibroid phthisis He cited Sauerbruch's opinion that involvement of the left lung is usually congenital. He did not agree with Lord a statement regarding the pathological changes as many patients who have had bronchectasis for years show little evidence of pathological processes in the parenchyma of the lung He stressed the importance of pre operative prophylaxis of the mouth and throat with special regard to destruction of the spirochætes

VAN ALLEN (New Haven) congratulated the author on the work he has done to establish the sprochaste as one of the main factors in chronic suppurative diseases of the lung. He believes how ever that sprochastial disease is not the cause of chronic abscess of the lung and bronchiectasis but a secondary contaminant which is responsible for the chronic stages of the disease. He called attention to the fact that the rabbit is particularly susceptible to spirochastal disease whereas the dog resists it. In the dog it is difficult to cause chronic lessons with spirochastes without producing an area of decreased

resistance before implanting the organisms
SMITH (Ray Brook N Y) described his work in isolating all of the organisms involved in abscess of the lung and bronchiectasis and then re combining them to determine the combination necessary tn reproduce the disease. He found that when the spirochætes were added to the coccus vihrio and fusiform bacillus a severe lesion with an extensive necrosis and a foul odor was produced and the resulting disease could be transferred from one guinea pig to another almost indefinitely The spirochætes alone and the other organisms alone or in any com bination without the spirochates did not produce such a lesion The spirochate is not secondary to the other organisms it is a concomitant rather than a secondary invader Smith believes that Sauer bruch did not distinguish clearly between congenital bronchiectasis and bronchiectasis beginning in early

childhond as an infective process. He emphasized the importance of pre operative prophylaxis of the mouth and throat and the use of arsenic therapy and postural drainage in the treatment of bronchiec tasis. He agreed with Coryllos that atelectasis is a factor in the development of certain cases of abscess and himnchectasis. He stated that the fuso-piro chætal organisms do not readily survive on the sur face in a bronchus they either disappear completely and leave no disease or they invade deeply into the bronchiectasis. He will where they produce bron chiectasis by destroying the elastic tissue

J EDWIN KIREPATRICK M D

Vecchi A Pneumectomy (La pneumectomia) Arch ital di chir 1930 xxvii 537

Although a great deal of experimental work has heen done on surgery of the lung in recent years it is still generally believed that a complicated tech inque is necessary to operate in the pleural cavity with any hope of success that the treatment of the sectioned bronchus is very difficult and that ordinary experimental animals particularly dogs will the of operative pneumothorax.

The author reports a series of experiments on rabhits and dogs in which be removed an entire lung. He tried to determine the simplest technique with which this could be done to avoid the use of artificial respiration to discover whether the me diastinum of the dog is continuous and whether lack of continuity would have any effect in serious open tions on the lung and to determine any histological changes that might take place in the stump of the bronchus and the remaining lung after the operation Protocols of the experiments are given and supple mented with photomicrographs

It was found that in dogs pneumectomy could he performed with good results in a single stage on either side and in rabbits on the left side without special methods of anæsthesia or artificial respira tion or any apparatus for modifying intrapleural pressure Ligation of the hilus of the lung en masse with a silk ligature was sufficient to hring about good closure of the hronchus if it was done with care The results of operation and the operative and necropsy findings showed that there is no com munication hetween the two sides of the medias tinum in dogs. The lung that was left always in creased in size Frequently the enlargement was uniform but sometimes there was a greater increase in the lower lohe which expanded to fill the entire opposite side of the thorax Histological examina tion at first showed marked byperæmia. In some cases this was accompanied by transudation of serum into the alveoli and slight small cell infiltra tion This hyperæmia subsided and dilatation of the vessels and bronch took place with an increase in the smooth muscle fibers in the walls and dilata tinn of the alveoli and infundibuli Finally in about half of the animals marked emphysema developed with thickening of the interstitual tissue

AUDREY GOSS MORGAN M D

Allen D S The Treatment for Pen trating
Wounds of the Pleu al Cavity t & S g 193
x Pt 2 6

In penetrating wound of the pleura in civil life conservative non operative fire themet is often best whereas in penetrating a ounds of the penton cumradical perative treatment a usually indicated first difference so based on the following fret s

r The difference between the organs contained within each ca ity

vitnin each ca it

2 The difference in the pressure in each cavity.
The pleural cavity tends to maintain cavities and
the per toneal cavity to obliterate them
3 The much less fa orable reaction of the pleural

cavity to the presence of contaminated blood as compared with the peritoneal cavity

4 The impossibility of placing the organs in the pleural cavity at effectual rest
5 The g eater case with which hamorrhage from

the pulmonary circulation can be controlled than hamorrhage from the abdominal circulation

Simple garehot, counds and stab pounds of the

Simple gunshot vounds and stab wounds of the chest seldom require the elabo ate surgical procedures which were employed during the war for the treatment of ounds of the chest

The author rev ews 162 cases of gunshot and stab ounds of the chest which were treated at the Barnes Hosp tal St L us and the St Louis City Hospital All of the patients were seen within four hours after the inju y except to who were admitted to the

hosp tal after the trenty four and thirty to bours

Death may occur soon after such injuries from
shock and hamo rhage or later from complications

The chief I te compl cation is empyema

In the cases reviewed the treatment as a direct chefty toward the p evention of hamothorax or the removal of the blood from the pleural cavity A simple method of remo ng the blood from the pleural cavity cons six in closing the wound in the blood and the six of the constant of the six of the constant of the constant

When extensive hamothorax is prevented there is little shock, sweating or fever and respiration is not

labored

In 2 of the cases rev ewed operation was done for ligat on of the inte costal artery but the pleural cavity as not explo ed In 6 cases bullets were removed from the fung but in no instance before two weeks, after the inju y

In the 135 cases in which the penetrating wound involved only the chest there we e only 7 deaths. Three deaths we e due to hemo hige from the heart. The low mo tallty rate indicates that in simple stab and gunshot wounds of the pleural cavity occurring in evil life t is seldom necessary t exploe the chet.

In the d scus on of this repo t Bazin stated that he was interested in the method of dra ming the hemothonax by placing the patient on the wounded side. He said that during the war it was found advisable to close gaping vounds of the chest immediately. Ba in makes cultures and a direct cuanimation of the aspirated material from the hemothorax after each aspiration. When infect on is disc ered the performs a thoractomy followed by thorough cleaning: I the hemothorax airtight closure and repetied aspirations. Unler such treat ment se ere infection and massive implyema are prevented.

ELLINS cated of cases of penetrating wounds of the chest. Of the 89 patients who survived the immediate injury 3 developed empyema. One of the latter died and the 2 others developed ch on c empyema which was ceedingly difficult to clear up

Lockwoop advocated dealing with these cases and other injunes of the chest such as occur in automobile and airplane accidents along the lines developed during the ar. He stated that first and should include immediate closure of open wounds of the chest by adhesive plaster and the administ ation of morphine. If the patients is not hold gh in owa at the end of about six hours and has a lige hemothorax thoracolomy is indicated.

LORD suggested that the cultures be made under

anaerobic as well as ae obje conditions

BRUNN recommended removing the hamothors and replacing it by air with the pneumothors apparatus. He advocated conservate e treatment of pnetrating a ounds of the chest with carful vatching for hamorthage and infection so that radical measures may be instituted sufficiently early to be of value.

VAN ALLEN requested an e planation of the fail ure of the blood to become coagulated as it lies in

the pleur

ALLEN replied that in a series of cases studed durg gibe say Henry and Ellot found that the blood in a himethora's defibrinated blood. When all of the fluid was withdrawn from the pleur I cavity an evudate from the pleur often contain nated the blood and produced clotting. They stated that the blood contains no fibrinogen. Allen doe not believe this is true in all cases.

CORYLLOS stated that in cases of small bullet wounds conservative treatment is best but in cases of wound produced by small foreign bodies with great momentum which lodge in the lung t sue and after a few days ill produce gas gangrene thoractoring with preventive debndement of the wounded

fung parenchy ma is ind cated

Lillustrick and that the treatment outlined by Allen is adequate if bleed in from an inter stal a tery can be definitely ruled out. In the pre-ence of such bleeding non intervention vould be fatal. He behaves that asp ation is madivisable in hamohorar as it causes the lug to e pand so that the pulmon my nound reopens and the hamorith ground the pulmon my nound reopens and the hamorith ground the sum of t

### GESOPHAGUS AND MEDIASTINUM

Nehrkorn Posterior Thoracic Œsophagotomy for Foreign Body in the Œsophagus (Oesophagoto m a thoracica post bei Fremdkoerper im Oe opha gus) Zentralbi f Chir 1930 p 2512

A razor blade was removed from the cosophagus of a twenty three year old man through a posterior thorace cosophagotomy according to the procedure described by Enderlen and Sauerhruch. The wound was then partially closed and tamponed and the patient was fed through a retained stomach tube. At first there was a small cosophageal fistula through which only liquids escaped. This fistula closed spon taneously. Recovery was complete after six and one half months. The lumen of the cosophagus was entirely free.

The author reports also a case in which esophago gastrostomy by the method of Heyrovsky and Fromme was performed successfully for stenosis of

the cardia

Rectal avertin anæsthesia was employed in both

cases

In the discussion KUDLES reported a case in which be and a lary ngologist removed a dental plate which had lain in the esophagus for some time through an exterior esophagotomy with the aid of an esophagoscope

Von Stegemann recommended the specially de signed distensible œsophagoscope for difficult cases such as Nehrkorn described. This instrument per

mts dilatation of the esophagus and thereby the removal of all foreign bodies. You Stegemann then presented a man who had had a luetic involvement of the stomach. At laparotomy a clinical diagnosis of malignint tumor with stenosis of the cardia had been made. A gistro enterostomy and Witzel gistrostomy were performed but after the condition improved the diagnosis was doubted and the Wassermann and Mennicke reactions were found to he 4+ The esophagus was then dilated continuously and specific treatment was given. The patient made a considerable gain in weight and the stenotic manifestations at the cardia disappeared.

ROEPER stated that in his opinion continuous venoclysis with normosal and glucose solution is preferable to feeding through the stomach tube

immediately after the operation

Von Haberer agreed with Nehrkorn regarding the treatment of spastic stenosis of the cardia he particularly recommended the method of Starck. He presented a patient who had been cured of an enormous dulatation of the cosphagus by trans thoracic anastomosis between the cosphagus and the stomach

FRIEDEMANN stated that all cases of long stand

ing cardiospasm result in stenosis. He no longer operates but dilates by the Starck method

NAEGELI said that in some cases operation only by the transthoracic route is indicated One patient upon whom he operated died of pulmonary disease Hook (Z)

## SURGERY OF THE ARDOMEN

ABDO IINAL WALL AND PERITONEUM

Fitch E M S me Causes of Failure in the Operative Treatment of Inguinal Hernia has Engla id I Med 1931 cm 49

The author belie es that all indirect inguinal hemix are of congenital origin or due to faulty development at the site of the internal ring. Direct

inguinal herniæ are acquired

For the cure of an indirect inguinal heroia and the prevention of a secondary indirect or direct herma it is necessary to remove the funnel like opening and re inforce the middle inguinal fossa. In the opera tion recommended by the author the sac is opened separated from the cord up to and through the internal inguinal ring twisted bulled dos a crushed bgated and amputated The stump of the sac is then transfixed up and and outward between parietal per toneum and muscle The cord and muscles are treated as in the Bassini operation with eare not to strangulate much muscle tissue with the sutures The external inguinal ring is not divided unle s it is greatly enlarged but the fascia of the external oblique sincised from , to / in above the ring

In direct herms the sac is transfixed high up ligated and amputated and the stump is sutured o er and over The stump is then fastened bigh up under the internal oblique and transversalis muscles Here as in indirect inguinal hernix muscle is sutured to the ingu nai ligament. If tension is required to approximate the muscle and inguinal ligament this tension ; rele ed by sepa ating the fascia of the exte nal oblique from the internal oblique to the rectus mus le At the level of the internal ring the aponeuros s of the fascia of the internal obl que and transversalis muscles is divided. The incision is begun at the lateral border of the rectus muscle and continu d toward the midline and the pubes. This allows the fascia to slip downward and out vard thereby relie ing ten i n on the suture line where muscle is sutu ed to the inguinal I gament. The fascia of the external oblique covers the rectus muscle

The author usually employs spinal or regional anaesthesia a it is followed by less postoperative nausea and omit ng than nhalition anaesthe is EARLO LATIMES M.D.

Bundschuh E Bile Peritonitis Without I rforn tion (Z pe i t losen Gall nperit mt s) A h f kin Ch g3 cl 549

Biliary peritoritis without perforation is discussed in the literature since 1911 when Clairmont and von Haberer observed and described the first case of this type. As they were unable to find any perforation at operation or autopsy in spite of the intensely bule stanced fluid in the perstoned cavity they assumed that the apparently intact bile ducts had been ren dered permeable by a macroscopically undetectable purbological process. Similar cases were subse quently observed by other churcans who accepted the explanation of von Haberer and Clarmont Others rejected this filtration theory. They said that the failure to find a perforation at operation or autopsy did not prove that a perforation about no been present.

Blad was able to show experimentally in dogs that a beliary peritonitis without perforation may occur after ligation of the common duct and the injection of pancreatic juice into the gall bladder. The wall of the gall bladder became as porous as a sponge took up bile and permitted the hile to escape into the perstonesi casity Macroscopically aside from thickening the gall bladders were little changed Honever microscopic examination revealed com plete necrosis of the gall bladder wall-a digestion necrosis without nuclear staining but with a well presers ed wall structure and marked serofibrinous exudation a high had separated the connective tissue fibrils Evidence of inflammators necrosis was lack ing Blad's observations brought new converts to the filtration theory Similarly to Blad Schoen bauer was able to show that in the dog ligation of the common duct and the injection of pancreatic ferment into the gall bladder rendered the nall of the gall bladder permeable to its biliary content and was followed by gangrene of the gall bladder wall from the action of trypsin In spite of these expen mental results in the dog bile peritonitis without perforation of such or gin had never been seen in

man Three years ago the author reported a case in which as in the experiments of Blad and Schoen bauer calculous occlusion at the ampulla pe mitted the flow of pancreatic juice from the pancreatic duct above the stone into the common duct where it mixed with the bile Stasis took place and extended upward in the ducts and particularly into the gall bladder The gall bladder wall was adematous the perstancal surface of the ordenatous area w s cov ered with dew I ke drops of biliary fluid which im mediately re appeared when wiped away This was therefo e a biliary peritonitis. The gall bladder showed no perforation and seemed little altered ex cept for the orderna but microscopically it was found to be completely necrotic vithout nuclear staining and without evidence of inflammation The condition vas therefore purely a d gestion necros s The necratic gall bladder permitted its contents to filter through its a all as was clearly seen during the opera tion Accordingly the peritoniti was due not o ly to bile but also to pancreatic juice. The peritoritie evudate contained all of the constituents of pan creatic juice as well as bile. Furthermore there were numerous fat necroses in the abdominal cavity. The gall bladder bile also contained all of the pan creatic ferments.

The author was therefore able to show that m man also there may be a bilary pertonitis without perforation in which the bile filters through the gall bladder wall and that this may result from the direct entrance of pancreatic juice into the bile ducts with resulting gangrene of the gall hladder wall pro

duced by the pancreatic ferments

After this demonstration Ruppaoer reported a case of biliary pentontis without perforation Recently Westphal exhaustively studied the flow of pancreatic juice into the bile ducts and the flow of bile into the pancreatic duct and like Blad and Schoenbauer experimentally produced severe dam age to the bile ducts and liver by injecting pan creatic juice into the common duct in several in stances causing gangrene of the gall bladder and biliary pentontis

These views particularly in their generalizations have provoked energetic contradiction by Hoeseh and Loeffler Popper examined gall bladder bile for pancreatic ferments particularly for diastase and found that bile has no diastatic action. However in a case of stone occlusion of the ampulla in which the common duct and pancreatic duct opened to gether above the ampulla be found pronounced diastatic action as a result of the entrance of pan creatic juice into the bile ducts. In the meantime the author has bad the opportunity to study a case which presented an entirely different etiological explanation for bile peritonitis without perforation.

A forty four year old man had frequent attacks of colicky pain in the right abdomen for several years Several days before he was examined by the author the colic had recurred in the right upper quadrant in association with fever nausea vomiting and obsti pation The physician was able to palpate the dis tended and tender gall bladder. The remainder of the abdomen was free On his admittance to the hospital the patient was found to be sturdy well nourished somewhat obese and free from icterus Signs of generalized peritonitis were apparent En largement of the gall bladder was not demonstrable Operation revealed generalized biliary peritonitis A site of perforaton was sought The gall bladder was only moderately enlarged and nowhere adherent but its wall was rather inteosely ioflamed reddened and somewhat thickened The portion of the fundus opposite the duodenum was greeoishly discolored over an area of 2 by 1 cm The gall bladder was not tensely filled Several movable stones up to the size of a cherry could be palpated within it Nowhere could a perforation be seen and pressure to exert tension on the gall bladder contents failed to expel bile The liver was free from pathological changes and showed no site of perforation Cholecy stectomy was performed and a very fine drain inserted in the common duct The peritoneal cavity was washed out and a tampon was inserted into the gall bladder hed. No specific pancreatic ferments such as trypsin and lipase could be found in the blary peritoneal fluid or gall bladder bile. The patient died of pneu moma two davs after the operation. Autopsy showed fat infiltration of the liver and extensive severe confluent blateral bronchopneumonia. His tological examination showed severe phlegmonous infiltration of the cystic duct and particularly of the gall bladder walls. The peritoneal covering of the gall bladder walls are the peritoneal covering of the gall bladder was muct in all of the serial sections. A site of perforation therefore could not be found.

From these findings it is evident that the biliary peritonitis in this case did not arise from the action of pancreatic ferments on the bile duct The most prohable explanation is that there had been a per foration which permitted emptying of the gall hladder contents into the peritoneal cavity dently following the release of the pressure in the gall bladder the occluding stone became freed and as the cystic duct then again became patent the bile again flowed into the gall bladder and from there through the perforation into the peritoneal cavity. Failure to discover the site of perforation is no proof that a perforation had not occurred and there is no ade quate explanation of the biliary peritonitis in this case without assuming a site of perforation. Bile peritonitis without perforation may occur also in calculous occlusion of the cystic duct. The author believes that the non perforative bile peritonitis described may be considered a true perforative VON LOBMAYER (Z) peritonitis

### GASTRO INTESTINAL TRACT

Le Wald L T Roentgen Diagnosis of Gastric Syphilis J Am M Ass 1931 xevi 179

Le Wald believes that the frequency of gastric syphilis is greater than is indicated by the number of reported cases A correct diagnosis is of great im portance not only because of the possibility of com plete recovery under anti syphilis treatment but also because extensive surgery may be undertaken if the diagnosis is wrong Before the patient is sub jected to operation for suspected carcinoma of the stomach a roentgen examination should be made by a roentgenologist competent to differentiate between carcinoma limitis plastica ulcer and syphilis of the stomach When the diagnosis is doubtful repetition of the rocotgen examination may show improve ment after an active course of anti syphilis treat meet In congenital cases of syphilis with no other signs of syphilis besides the gastric signs the condition may be unrecognized unless a roentgen exam mation is made Gastric analysis shows diminution or absence of free hydrochloric acid which is due in some cases to the rapid emptying of the stomach and in others to extensive involvement of the acid producing portion of the stomach

Roentgen examination shows that the stomach is diminished in size and empties almost immediately often 1 1th a compensatory dilatation of the assorba gus It reveals also a symmetrical dumbbell de formity in the middle portion. When this type of deformity is found in a young person or in an older patient without the cache ia to he expected from mal gnancy producing such deformity gastric syphil's may be suspected and if a positive Wasser mann reaction is obtained the diagnosis is practically establ shed In cases sho ing the remarkably small tubular stomach of limitis plastica it is necessary to rule out fibromatosi and carcinoma. In some cases the roentgen e amination disclo es localized areas of intiltration of the stomach wall similar to those seen in carcinoma but in syphilis the lesion is more ex tensive and has a smoother outline. A syphilitic lesion situated at the pylorus may produce marked stenosis and gastric retention suggesting ulcer or carcinoma but is always more extensive than the le on produced by ulcer alone

Syphilute deformity of the stomach has been seen to disappear after anti syphil's treatment. In a senes of cases in which such treatment was given there was no recurrence over observation periods ranging from ten to seventeen years. In some cases surgical measures may be necessary heause of eatrastion at the pylorus caus in obstruction. The sendition is usually an indication for gast of enterostomy. In no case has a jegunal or marginal uter die cloped after gastro enterostomy. Eaten sive resection of the stomach should he avo ded when the diagno is of gast c sy philis has been made by roungen e animation and when the diagno is also past of the stomach at your of the stomach at the present of uter and carcinomy of the stomach.

Jacarelli E C nstitution and II redity in the Path gensi of Gastroduodenal Uic (Costt deed tetà lla p tog dilul ragt t dode l) Poi l Rom 193 xxx i

n t Son

After reviewing recent work on the importance of constitution and brendty in the pathogeness pastroduodenal ulcer the author presents the history of a f mily of thirteen persons (grandparents chidren and grandchidren) ten of whom had sgos of organic gastroduodenal leasons. Almost all of the le tons were of the ulcerous type

A study of the literatu e and the author's cases indicates that the constitutional factor is probably the transmission of a special sensitiveness of the gastroduodenal mucous membrane secondary to congenital or acquired disturbances of the vegetative nervous system chiefy the vagus

AUDREY GOS MORG N M D

Hunt E L and Lisa J R Peptic and Duodenal Ulcer in Tabes D salis J Am M As 193 xc 95

The authors report four cases of peptie and duodenal ulcer assoc ated tith tabes dorsals which were seen in the City Hospital New York. In only one was the ulcer diagnosed before autops; In all four cases the typical findings of tabes we coresent. In three cases the Wassermann react on was positive but in one case repeated tests of the blood and spinal fluid were negative. In one case there was a bistory of bloody vomities.

In all of the cases sphilis of the heart and aorta was found at autops, I none case autopsy showed multiple ebrome gastric ulcers with perforation of one of the lessons which had caused an acute general suppurative peritomits. In one case in which a pre-operative diagnoss was made and gastro enteros tomy had been done a few days before death autopsy stomy had been done a few days before death autopsy to the stomy of the death autopsy showed a bleed agreement peritomits. In another case autopsy showed a bleed agreement had been done and enter that had filled the small and large intestinces with blood. In the fourth case two duo denal ulcers with bemorthare were found.

In all of the cases microscopic examination showed the lesions to be simple ulcers d sclosi g no endence

of either syphilis or malignancy

The authors conclude that the occurrence of simple peptic and duodenal ulcers in tabes dorsalis is more frequent than has been suspected and that more careful attention should be given the abdominal symptoms in these advanced cases of syphilis

Gopena J R and Bianchi A E An Un u l Clinically Benigh Gastrie Tumor-Myxold Shwannoma (sob u r tumo git c i came i be g o-schw noma m d) i h f i de f m d op d git 93 5

The case reported was that of a man fifty four years of age who entered the hospital on account of recurrent gastine harmorthing. The part ent had been at the part of the par

Palpation disclosed slight pain on deep pressure in the epigastric region to the left of the midline smmed ately below the ribs It revealed allo a deep resistance but the nature of the latter could not be determined because the muscle became rigid on p l pation Blood e amination showed changes which might have been due to the hamorrhages The gastric ju ce was hyperac d Roentgen exam nat on revealed a defect in the lesser curvature which sug gested cancer but malignancy was ruled out by the flexib lity of the stomach which indicated absence of infiltration around the tumor by the absence of pa n on pressure and of spasmodic contractions by the peristalsis and mobility of the stomach v h ch sho ved absence of pengastric adhesions and by the presence of the normal mucous membrane rel et described by Larsen Operation disclosed a tumor on the lesser curvature An extensive wedge shaped resection was done Recovery was uneventful

A detailed histological description of the tumor is given with photomicrographs The neoplasm proved to be a myxoid schwannoma a tumor sometimes called myxosarcoma and ometimes myxo blastic sarcoma Aurrey Goss Morgan M D

# Wangensteen O H Acute Bowel Obstruction Winnesota Med 1931 NV 16

The mortality of the surgical treatment of acute intestinal obstruction is as high today as it was forty years ago. It rises with the delay of treatment Statistics show that it increases from zero in cases treated within six hours after the onset of the symptoms to 40 per cent in cases in which treatment is delayed for six days.

Experiments performed by the author did not in dicate that the contents of the obstructed loop of bowel are any more toruc than the contents of the normal bowel. However if strangulation has occur red there is loss of vitality of the tissues involved and abnormal absorption takes place through the meser terric vessels and from the seross of the peritoneum Studies of the blood reveal an increased combining power for carbon dioxide with a decrease of blood chlorides. The administration of normal salt solution will combat dehy dration and prolong life. In strangulation the use of saline solution is of no particular advantage. In obstruction of the lower bowel there is no change in the chemical character of the blood.

Early diagnosis is difficult because at first there are no local findings The development of such signs as meteorism collapse and stercoraceous vomiting often means that the patient is beyond hope of cure Auscultation of the abdomen will re by operation yeal loud peristaltic rushes with a peculiar bubbling sound such as is produced when water is poured from a bottle At times a metallic tinkle may be heard The use of the enema may be misleading as gas and faces may be expelled from the distal bowel even when complete obstruction is present. The \ ray is of aid in the diagnosis since in the cases of adults the visualization of gas in the small bowel is evidence of intestinal obstruction. The ladder pattern and the presence of fluid mirrors make the diagnosis Auscultation of the ahdomen will differ certain entiate hetween mechanical obstruction and the si lent abdomen of intestinal paralysis. Any patient with intermittent colicky pain in the abdomen which is not relieved by enemas should be carefully observed for intestinal obstruction

Operation should be performed as soon as it is reasonably evident that obstruction exists. The sur geon should not wait to determine the location or character of the obstruction. If the patient's condition permits the ideal procedure consists in release of the obstruction removal of the devitalized portion of bowel and intestinal anastomoss. In an urgent case strangulation of the howel should be

treated by exteriorization if resection is not ad visable In some cases otherwise inoperable enter ostomy of the howel proximal to the obstruction is of great value Jejunostomy is contra indicated on account of its mortality William J Pickert M D

Bonorino Udaondo C Intestinal Obstruction Caused by Biliary Calculi (Obstrucción intestinal por cálculos biliares) Rev Asoc med argent 1930 vliu 217

Intestinal obstruction caused by biliary calculi appears to be more frequent in females than in males and most common after middle age of 230 cases reviewed by Wagner 73 were those of persons between the ages of fifty and fifty nine and 8 those of persons between the ages of suty and sixty nine

Calculi causing intestinal obstruction are usually ovoid They vary in weight from 5 to 30 gm Mill ward cited a case in which a calculus weighing 465 gm was found There seems to be no relation be tween the size of the calculus and the gravity of the symptoms provoked by its migration. In or per cent of the cases the calculus enters the intestine through a fistula formed after a prolonged inflammatory process in the gall bladder has given ri e to pericoli cystic changes fixing the diseased organ to the adia cent structures In 143 cases reviewed by Cour voissier the fistula communicated most often with the upper portion of the duodenum and least often with the transverse colon. In 108 of the 145 cases reviewed by Hermann the obstruction occurred in the region of the ileocæcal valve. This was the most common site also in the cases reviewed by Lesk and Wagner

The mechanism of the obstruction consists in a local spasm which causes fixation of the foreign body. The symptoms depend on the intensity of the spasm more than on the size of the calculus. A calculus of enormous dimensions may go through the digestive tract without giving rise to 35 mptoms. As the result of extensive lesions in the microsa giving rise to paralytic ileus the spasm sometimes persists after elimination of the calculus. Around a fixed calculus the mucosa becomes inflamed and thickened and if the condition persists ulceration and necrosis take place with subsequent perforation and peritonitis.

The symptoms of intestinal obstruction due to biliary calcult depend in great measure on the site of the obstruction When the obstruction occurs in the duodenum jejunum or proximal ileum they are usually acute whereas when the obstruction occurs in the terminal ileum or the colon they are usually subacute or chronic The most constant early symp toms are constinution and diarrhous accompanied by abdominal pain which may be either of a colicky character or diffuse Diarrhoa is the predominating symptom when the occlusion is being formed but occurs even after the process is well advanced. At first it is intermittent hut later becomes continuous The pain varies in intensity It is localized around the umbilicus and in the upper half of the abdomen It is parovismal and is somewhat transmitted. It is due to traction of the d lated loop on the mesentery As a rule pressure ballooning occurs and byper peristalists is present above the obstruction. The meteonism may be of great aid in the diagnoss. It appears later in obstruction of the small intestine than in obstruct on of the colon. The peristality waves although active do not reach extreme intensities. The distention due to grass limited to the loops just also e the stenosis. Von Valla's sign ah dominal asymmetry due to the localized dilatation makes its appearance. Auculdation over this local dilatation reveals the presence of Wilms sign a pecul ar metallic sound caused by the compression of liquids and gases above the obstruction and their displacement by hyperpensishs.

In obstruction of the small intestine roentgen cramination is of great importance. The author calls attention to the dangers of producing total obstruction by the administration of an opaque meal. Case has reported numerous 1 stances in which chronic obstruction in the leurn was disposed by means of roentgenograms taken vith the pat ent in the standing position. At times the loop just above the obstruction shows a large gas bubble suggesting an inflated stomach. Ygain a series of bubbles of air or air and vater of irregular distribution are seen in the central abdominal reg on and give n ie to the herring bone appearance first de-

scribed by Case

The condit on develops suddenly with symptoms of grave leuss lasting seve al hours. There is then a quie cent period of from one to twelve hours. This is followed by ecutrence of the symptoms with fixed omiting. The symptoms then subside again and for a time improvement is noted. The subsequent crass which is less pronounced is sometimes accompanied by pain but not by vomiting. After an interruption which varies in length the symptoms of complete obstruction make their appearance.

When the obstruction occurs in the duodenum or the p ournal ideum the prognosis is grave but when it oc urs 1 the lage intestine the prognosis is more fav rable. According to the author's stati test the mo tality ranges from 33 to 68 per cent. It is lowest when intervention is carried out early. The author recommends enterostomy in which the incision is made at a distance from the point of obstruction to avoid the necessity of repairing walls that are finable. The Casterlas MD.

Armour J C B wn T G Dunley D M M tchell T C nd Oth rs Srudies on High Intestin 1 Obstruction Tle Administrati n of Salln Solution and Otler Subst nees by Enterostomy Below the Site of Obst uction B i J S f 93 1 467

The cause of death in h gh intestinal obstruction is not definitely known. According to the oldest theory it is the absorption of a toxic substance formed above the site of the obst action. Williams concluded that the toxin is formed in part at least by the hacillus welchi. and found that he was able.

to reduce the mortal ty from 24 8 to 93 per cent by the use of anti gas gangine serum? Wholest thought that a four proteose is formed in the intestional mucosa and is absorbed into the circulation from the lumen of the gut According to a more recent theory the fatal termination is the result of a change in the chemical composition of the blood due particularly to the loss of chlorides and to dehydration and lakalosis. Haden and Orr hase called attention to the effectiveness of saline solution in intestinal obstruction.

The authors report expenments carried out on dogs in which they attempted to determine whether by the administration of saline solution and energy producing foodstuffs life could be sufficiently producing foodstuffs life could be sufficiently produced to the sufficiently produced to the sufficient of the sufficient of the sufficient and the sufficient of the sufficient of the sufficient suffic

They found that in the cases of untreated does death was preceded by the prog essive development of severe alkalosis gross lowering of the blood chlorides and finally an increase in the blood urea For several days before death the urine was chloride free and the stomach contents contained no free hydrochloric acid although the total chloride content vas normal. It was immaterial whether the ble and pancreatic mice entered the intestine above or below the obstruction but the time of survival was lo ger the lower the obstruction When both coloride and water were administered below the obstruction the chemistry of the blood urine and stomach contents remained normal and life was greatly pmlonged Death ensued only after about four weeks and could not be attributed directly to the obstruction When peptone and carbohydrate were added to the chlo ride and water life was prolonged for seven weeks or longer Withdrawal of the chloride then caused death with the usual clinical and chemical changes There was no evidence that excessive breakdown of tissue protein is an essential accompaniment of high intestinal obstruction. The occurrence of bacillus welche in the stomach contents was the same in the treated and untreated animals

From the findings the authors conclude that death in intestinal obstruction is due not to forzema but to the chemical changes resulting from a loss of chloride and water. Therefore the treatment should coosist in supplying chloride and water until continuity of the alimentary canal has heen re estab lished.

Miller T G Duodenitis A Review of Twenty Six Cases So Diagnosed Med Cin North Am 93t x v 81

None of the t enty si cases revewed by the author came to operation or autopsy but the diag nosis of duodenitis seemed justified by the chinical laboratory and roentgen findings

Roentgen observations are placed first in importance among diagnostic criteria. A normal or fish

hook type of stomach was found in twenty of the twenty six cases the steer horn type in three and

the ptotic type in three Therefore in all but three cases the greater curvature was at or above the level of the iliac crests

Gastric residue was present after a six bour period in only three cases Peristalsis and motility observations corresponded with those io duodenal ulcer

Pylorospasm was found more frequeotly in cases of duodeouts than in cases of duodenal ulcer but judging from the six hour emptying time is less per sisteot in the former

Irregularity of the duodenal cap was demonstra ble 10 every case but was not constant as in cases of ulcer Ulcer can usually he eliminated on the basis

of inconstant irregulanty alone

The roentgen characteristics of duodeoitis seem to be irritability non retention and inconstant irregularity a group of phenomena uncommon in ulcer and adhesions

Duodenal stasis was found to be rare Colonic stasis which is so common in duodenal ulcer was even rarer in the cases of duodentits than in the general group of cases in which roentgen studies of the digestive tract are made

The duodenitis was most common between the twentieth and fiftieth years of age and was five times as frequent in males as in females

The symptoms in most instances were those of gastric or duodenal ulcer. Their duration ranged from three weeks to ten years. Judd and others think the lesion is an independent entity for if it were merely a first stage in the development of ulcer it would develop into that lesion earlier.

The observations made on physical examination were of little value. The incidence of discovered focal infections was low. The gastric activity varied Duodenal drainage was essentially negative.

The response to the routine medical regime for ulcer corresponded to that of cases of ulcer and was therefore of no value in the differential diagnosis

WILLIAM E SHACKLETON M D

Drennen E Heocæcal Cysts 1rch Surg 1931 vui 106

Drennen states that cysts and diverticula of the intestines are different phases of the same process. They result from the growth of a hud or a prolonga too of epithelium that has pushed out muto the mesenchyme. If an opening into the intestine is formed a diverticulum results whereas if the bud hecomes separated a cyst results. If it is possible however that some cysts are formed in a different manner.

The pre operative diagnosis of ileoceacal cysts can he at hest only a guess A mo able tumor in the region of the excum is suggestive. These cysts are more frequent in children than in adults. The operation of choice is resection of the segment of lotestice lovolved. In no case has enucleation of the cyst hem successful.

A search of the literature revealed only twenty autheotic ileocæcal cysts. In a large percentage of the cases there were symptoms of acute or recurring obstruction In two cases there was a concomitant mtussusception Acute appendictis was the preoperative diagnosis in at least three cases. The ages of the patients ranged from three days to twenty nine years

The author adds three new cases In all of them resection of a part of the howel was done There was one death that of a child two years of age who bad an intussusception with symptoms for six days EARLO LATINER M D

Dagnino A Dolichocolon (Dolicocolias) Semana méd 1930 xxxxii 1780 1891

Following a detailed review of the normal anat omy and physiology of the colon the author reports twenty six cases of dolichocolon supplementing the case histories with roentgenograms

The condition may he segmental or total congenial or acquired There may be no symptoms at all or there may be severe flatulence and pain. The condition may simulate organic diseases such as gastro duodenal ulcer and hiliary lithiasis or may cause phantasmal tumors. It is of importance to demonstrate latent forms as they may be prevented from developing into the more severe forms. Roentgen examination is of value but the diagnosis cannot be

made by this means alone

In most cases medical orthopedic and physic therapeutic treatment is indicated. Under such treatment the colon may become normal Surgical treatment is necessary only for acute complications and in cases with troublesome symptoms that resist medical treatment The treatment must be adapted to the requirements of the particular case but in general the intestine must be kept freely open. To prevent the formation of gas the cellulose content of the diet must be reduced Charcoal or similar absorbents and anti spasmodics such as belladonna and papaverin should be given. Acid milks such as kefir and yougourt are good and vaccines may he given by mouth or by injection The colon should be lubricated with liquid paraffin or some other oil sufficient liquid should be drunk and moderate ex ercise taken. Hydrotherapy and electrotherapy are beneficial Decalcification should be prevented by the use of ultraviolet rays and the elimination of acid producing foods from the diet

AUDREY COSS MORGAN M D

Stewart M J and Hickman E M Observations on Melanosis Coli J Path & Bacteriol 1931 x w 61

In 600 autopsies the incidence of melanosis colincluding the lighter forms was found to he 11 2 per cent. The condition has here discovered in persons poisoned by heavy metals hut is most common in cases of severe chronic constipation and obstructive lesions particularly carcinoma of the colon. Of 2 series of cases of carcinoma of the colon. Of an entire of the colon melanosis was found in 48 8 and 55 per cost respectively. As a rule the pigmentation is most intense above the growth.

Chutro P Posts perative Complications of Appendicitis (Complicate e pot per t is de la pendict) Scd ig Ine Srgell C g st

The latv is generally led to believe that appendectomy is a simple operation free from danger but as a matter of fact there are many complications An average of vanous American and I uropean statistics shows a mortality of 10 per cent. In some hos pitals the mortality runs as high as 16 per cent and in some as lo as 5 per cent. The fact that morthity is increasing may perhaps be explained by the as sumption that the disease has become so vell known that people do not fear it and allow themselves to be operated on by incompetent surgeons. In the United States the report of the Bureau of vital Statistics show is that there vere a 5000 deaths from appendiculus in 1038.

The author divides the complications into t o groups—those of chronic interval and early acute appendiculus and those of the suppurating gan grenous and perforative types. While the operative technique may be responsible for many of the complications in the first group the die are itself is

responsible for those in the econd group Among the complications in the first group are those due to the use of an anasthetic. Gas gangrene or a colon bacillus phlegmon may result from a condition present at the time of the operation the development of which was not pre ented by the op eration even though the latter was performed with a faultless technique \ reaction of the glands at the leocæcal flexure has been seen. As a rule this is found in cases v th discrete tuberculosis of the peri toneum. Abscesses may form in the yound around bits of suture material and phlegmons may develop in the abdominal wall from direct contaminat on of the subcutaneous cellular tissue or from a hæma toma Intrape itoneal complications may be caused by perforat on of the execum by the needle by loos en ng of the ligature by partial or total disinvagina tion of the stump by the 1 carceration of a bit of the vall of the cacum in the invaginating suture and by too d astic pu gatives e using e aggerated movements of the intestine and loosening of the sutures Peritonitis from any of these causes is usually fatal Intraperitoneal hemorrhage may result from insuff cient I gat on of the meso appendix and in transrectal operations from njury of the ep gastric artery Occasionally an early or interval appendicitis is complicated by paralytic ileus Most of the embolisms that occur in early appendectomy are harmless Ea ly appendectoms may be lollo sed by the fo mation of adhesi e bands i b ch cause chronic obstruction or by pain due to inclusion of a nerve in the abdominal wound Adhesive bands may be shown by oentgen examination but their sec tion does not always relieve the symptoms

In cases of suppurative | erforated or gangrenous appendicative some form of complication occurs after operation in 60 per cent of the cases. The possible complications are peritonitis phlegmon and sur

puration of the abdominal wall pylephlebitis deep cellulitis evisceration ileus perforation of the intestine with facal fistula subphrenic abscess epi plotus secondary hamorrhage embol sm phlebitis respiratory complications parotitis ententis in sufficiency of the liver and acute dilatation of the stomach. The treatment of each is discussed.

AUDREY GOSS MORGAN M D

Bensaude R Cain A and Lambling A Villous
Tumors of the Rectum (Le tumeurs II u es du
rectum) P s mtd 1 930 xxx 7 3

The histolog cal character of villous tumors of the rectum is disputed. By some there neoplasms are considered adenomate distinguished only by a vil lous covering by othe is as cancers and by a third group as superficial slowly growing neoformations intermediate between beinging an il malignant tumors. In the authors opinion they are distinct from orth nary adenomate of the rectum and epitheliomatia.

Of the authors fifty nine cases of per cent were those of persons more than forty year of age. The growth of the tumor is slow. In the case of a man aged forty eight years there yas a history of slight bleed ng after defecation a nce the age of four and in three cases such bleeding b d occurred for from six to eight years Bleeding occurs in 75 per cent of the cases Constinution is not at all constant. As a rule there is a sensation of weight and of a foreign body in the rectum especially after defacation. The patient may tell of passing fragments of tumor for years of occasional prolapse of the tumor on defect t on and of a glarry mucoid discharge Association of the tumor with hamorrhoids is confusing To le emphasized are the chronicity the danger of mal g nant degeneration and the tendency to recur after inadequate surgery. In 80 per cent of the cases the tumor is from 6 to 12 cm from the anus A pedicle or lobules or a gelatinous plaque is felt. The tumor is movable and the surrounding mucosa is soft Proctoscop e examination reveals a pink or glary white mass with will which stand out dist netly or are agglutinated by a glarry secretion

After the onset of mahignancy the tumor contains furmer zones which on pressure communicate their resistance to the mucosa. On proctoscopic examination the villi and glarry mucus are less apparent and the discharge on trauma is bloody or serohamorthagic.

Biopsy specimens from the hard zones of clove malignant change in 45 per cent of the cases in sections of the benign tumor the normal muco a schanges abruptly to exagerated vilin. The sub mucoss below a sessile tumor is little thicker than the submurousa below a fine tumor is little there in the tumor is limited to the muco a Sometimes mucous glands appear in the tumor as gfall y areas nucous glands appear in the tumor as gfall y areas fan the early stages of malignancy no mucous cells are found it ut the sect ons show a transition to lightly stande (plindincouloid cells in the later stages there are irregular vills with stra fied epithic hum budding into the ax so far villus. Infiltration of

the muscularis mucosæ may occur later than metas is in the differential diagnosis it must be borne in mind that the adenoma proliferates not at the apices of villi but in the depths of pockets. Certain glandular epitheliomata wrongly called villous epitheliomata are merely villi growing on an old adenoma. The dendritic epithelioma which is malignant at the outset is rare contains no glands rests in a depression of the muscularis mucosæ and is strikingly irregular. Polyps which are rare in adults have a smooth surface.

The treatment includes radium and roentgen ray irradiation and excision. The choice of treatment must be based on the size site and malignancy of the tumor and the patient's general condition In eighteen surgically treated cases reviewed by the authors the routes of approach were the rectal the perineal the abdominal and the abdominoperineal The rectal route was used in 75 per cent The rectal route may be employed only when the tumor is situated close to the anus and adequate rectal dila tation is obtained under spinal anæsthesia. The blood vessels should be ligated individually and a ring of normal mucous membrane about the tumor should be excised. A high anterior tumor may he associated with a true hydrocele of the pouch of Douglas

In the fifteen cases in which operation could be properly carried out there were two recurrences—

one after a year and one after eleven years

The histological findings are shown in ten photo
micrographs and the proctoscopic findings in six
colored plates

CURTIS NELSON M D

Gordon Watson Sir C How Far Can Radium Replace Radical Surgery for Cancer of the Rectum? Ann Surg 1937 xcui 467

The author has used radum implants in the treat ment of twenty seven operable cases of adenocarci noma of the rectum localized below the peritoneal reflexion. No five year statistics are available as yet Insix cases an apparent cure for periods ranging from one year to two and one half years has been oh tained but the results to date are too uncertain to justify the use of radium irradiation in preference to operation unless surgery is refused or contra indicated.

In cases of high growths of the rectum the dan ger of operation by the abdominoperineal route is considerable. Therefore unless the patient is regarded as an exceptionally good operative risk and the growth is in a sufficiently early stage to warrant the assumption that there will he little danger from recurrence after operation the use of radium is justifiable. Gordon Watson has used transperitoneal abdominal irradiation with needles and seeds in such cases.

Squamous carcinoma of the anus is hest treated with radium applied interstitially and on the surface of the growth. This treatment may preserve the function of the sphincter whereas operative treat ment destroys it.

### LIVER GALL BLADDER PANCREAS AND SPLEEN

Santy P and Mallet Guy P Cholecystostomy and Gall Bladder Stasis The Alternating Excretion of Bile and Mucus (Cholecystostome et vésicules de stase lexcrétion alternante de bile et de mucus) Lýon chir 1930 xvii 750

The operation of choice for gall hladder syndromes resembling lithiasis and commonly called gall bladder stasis is cholecystostomy. This procedure allows later operations and jields findings which throw light on the pathogenesis of the syndrome. The authors report ten cases in which it was noted that at a certain time the bilary flow became color less and purely mucous. Mucus and bile alternated the mucus appearing usually at night.

During the first day after cholecvstostomy the flowing to the exterior retains the characteristics of Bile B. Then it gradually clears up changing from a greenish hrown viscid substance to a clear golden yellow fluid i.e. it takes on the characteristics of hepatic bile. Cholecystostomy evidently puts the gall bladder at rest since the function of resorption in this organ which makes of gall bladder bile the characteristic bile called Bile B. has ceased to operate. This is indicated also by the fact that pain present before the operation ceases when the gall bladder is fixed to the skin. It is probable that besides the gall bladder muscle the gall bladder muscle is gall bladder muscas is also placed at rest.

Graphs have shown that the curve of fistular flow is irregular but oscillates around a characteristic average level for each patient. When the biliary tract is perfectly normal the gall biadder fixed to the skin excretes daily only from 30 to 40 c cm of bile. An excess of bile in the principal tract with biliary hypertension may be related to the excess formation of bile of hizmoly tic icterus or more frequently to an obstruction in the common duct. The cutaneous orifice plays the role of escape valve. The authors have observed cases in which cholecystostomy per formed for biliary retention was followed for eight days by a daily flow of from 650 to 750 c cm.

The second factor in the increase of the output from the stoma seems to he an abnormal abundance of the mucus secretion of the gall bladder indicated by the alternating flow of bile and mucus

In order to study the intermittent flow more care fully the authors collect the twenty four hour out upt in a series of eight test tubes attached to each other hy adhesive tape. Every three hours when the gall bladder drain is changed the excreted liquid is collected in a fresh tube. When the postoperative flow is bilary only, the examination of eight tubes shows great differences at different hours of the day the digestive periods coinciding with a marked diminution or even cessation of the flow. It is during these hours when the bile passes completely into the duodenum that the flow of mucus appears in some of the patients operated upon. The amount of the mucus flow is very variable.

This alternating flow of bile and mucis is not noted when the biliary tract is normal. A late inter mittent flow of mucus beginning from the fifteenth to twentieth day and amounting to only a fe-volution continueters is secondary to a mild reaction of the gill bladder mucosa. When the mucobiliary dissociation occurs early the flow of Bile B cassing before the end of the first week, at the time that feeding is resumed and the white liquid is shundard amounting to from 10 to 20 cm in three hours there is a manifest hoverserction of mucis.

The authors conclude that they have demon strated the occurrence of gall hladder stass from the exce st e formation of mucus. They believe that as a rule it is impossible to make the diagnosis clim cally Once however they were able to diagnose the condition by cholecystography. Cholecystostomy sauries cure.

guies cure

### MISCELLANEOUS

Dohe ty W D and R wlands R P Subphrenic Absc ss B t M J 1931 1 168

The authors review forty nine cases of subphrenic absecss and report s x of them briefly, Seventy three per cent of the abscesses occurred on the right side The majority of the patients were males

In order of decreasing frequency of occurrence the causes of the abscesses were perforated gastric and duodenal ulcers acute appendicates blood borne infections acute cholecystitis and earc noma of the stomach and colon

The suppuration is associated with remittent or intermittent fever with or without rigors and vith abnormal physical signs at the base of the chest A

subphrenc abscrss should be suspected when these findings follow a known infection such as recent appendicties or the perforation of a gastric or duo denal ulcer. The most constant local sign in the cases retweed was dullness over the love repart of the chest. The upper limit of the dullness was often dome shaped. While pulmonary signs may be absent at first they develop later as the result of spread of the congestion and inflammation to the pleura and lungs. Leucocy tosis is an important and almost constant sign.

Roentgen examination is invaluable in the diagnosis In the cases reviewed the characteristic local elevation and fixation of the dome of the diaphragm was often found. In some cases a collection of gas above the pus v as shown in the roentgenogram. For confirmation of the diagnosis reliance was usually placed on an attempt at aspiration with a long exploratory needle Ifowever in eleven of eighteen cases in which this was tried by Barnard it failed For grave cases in which the diagnos s is unce tain or the location of the abscess is not definitely deter m ned the authors advocate e ploration through a small incision in the epigastrium. If an abscess is discovered it may then be safely and quickly drained below the pleural reflexion and e traperstoneally the grave risks of pneumothorax empyema and peritonitis being thus avoided

Ante for abscesses may be drained through an accounter inci non in the loin is necessary. Posterior abscesses may be drained through the thorax by a subpleural or transpleural route. To prevent pul monary complications the authors employ the posterior subpleural approach.

ROBERT ZOLLINGE M D

## GYNECOLOGY

### UTERUS

Reeb Cystic Adenoma of the Cervix (Adénome kystique du col utérin) Bull Soc d'obst et de gynéc de Par 1930 xix 673

Reeb reports a case of cystic adenoma of the cervix in a woman forty nine years of age who sought treatment for menorrhagia of about four weeks duration In addition to a large adenomatous goiter associated with tachycardia and hypertension exam ination revealed a round elevated area measuring about 5 cm on the anterior and lateral aspect of the cervical canal about 11/ cm above the external os This area which was dark red was firm but not indurated Its surface was slightly mammilated Its borders were smooth and regular and not everted The small irregularities on its surface about the size of a pinhead were somewhat lighter in color There was no bleeding on manipulation the blood which presented at the external os emanating from the uterine cavity

Microscopic examination of a biopsy specimen revealed a marked glandular prohiberation with adenoma formation. The glands were for the most part dilated and cystic and lined by a single layered low cubodial epithelium showing no mitotic figures. The adjoining cervical glands were entirely normal There was no leucocytic infiltration.

Hysterectomy was performed although the growth was evidently beingn. The patient died five days after the operation from cardiac failure due to the

thyroid condition

Inspection of the uterus after the operation revealed a uterine polyp and several fibroid nodules. There was a distinct though irregular line of demarcation between the adenoma and the uterine muscu lature. Further microscopic studies laided to disclose any evidence of malignant degeneration. Mucicar mine stains gave the typical mutin reaction demonstrating that the growth was derived from cervical.

gland einthelium

The adenomatous proliferation was more marked
than in the cases reported in the literature and the
glands communicated or were grouped in islands
whereas in the cases previously reported there was
merely a glanduler by perplasia disseminated in the
connective tussue and showing no communication of
the glands. The adenoma resembled somewhat the
adenoma of Gaertner's duct described recently hy
Meyer but could be distinguished from the latter by
the positive mucin reaction which is absent in ade
noma of Gaertner's duct because the epithelium of
Gaertner's duct does not secrete mucin.

Cystic adenomata of the cervix are not infrequent but they are seldom described in textbooks and are usually confused clinically with nabothian cysts While these adenomata rarely become malignant Reeb emphasize the importance of differentiating them from carcinoma. He calls attention to the fact that the adenoma is firm and elastic but not induited. It is borders are regular and are not everted like those of carcinoma. It is dark red whereas carcinoma is yellowish. The adenoma does not bleed readily upon manipulation. As hoppy will not prove the absence of malignant degeneration in all parts of the growth. Reeb advises extirpation in every case. Hangle C Mack MD.

Freedman N Age Period Changes In the Cervix Uteri with Special Reference to Cancer Development im J Obst & Gyn c 1931 xx1 I

From a microscopic examination of 124 cervices most of which showed cervicits (24 obtained at autopsy and 100 at operation) the author draws the following conclusions

The cervit is a restless organ with its tissue components continually in a state of imbalance

2 At all age periods there is a remarkable inter changeability of the two types of lining epithelium 3 From the very beginning during the fetal

- period there is no fixed union of the two epithelia at the external os one may overlie the other 4 At labor the cervix is especially prone to de
- velop an endocervicitis as the result of cervical lacerations
- 5 The restlessness of the cervical epithelia makes endocervicitis of great significance because of the metaplasias of the columnar lining and excessive downgrowth and thickening of the squamous epi thelium which follow
- 6 Many of the results of endocervicitis represent a precancerous stage which need not necessarily develop into true cancer. For this stage the term carcinoid suggested by Borst is preferable.

7 The regressive byperplasias in sensity must be carefully studied with the possibility of a pre cancerous or a dysontogenetic condition in mind

8 In the prophylatus of cancer of the cervix cervical lacerations should be quickly repaired. In suspicious cases the local histological examination should be supplemented by the clinical records. Surgery is indicated if the precancerous stage is greatly aggravated and true cancer seems imminent.

E L CORNELL M D

Pinsan J R The Question of the Development of Cancer in the Cervical Stump After Subtoat Hysterectomy (Ls question de la cancénsation du moignon cervical après hystérectomie subtotale) Ren franc de gnite et di obj! 1930 xx 683

The author reports five cases of cancer developing in the cervical stump after subtotal hysterectomy

In a review of the literature he found a wide drier gence of opinion as to the frequency of this condition its reported incidence rangin, from 0 40 per cent (Sanders) to 65 per cent (Lincoln) statistics tend to sho , the highest incidence Pinsan believes the incidence does not exceed a per cent. He attributes the difference of opinion regarding it to incorrect interpretation of stats tital data and failure to recognize a co existing cervical cancer at the time of operation for fibroids. The time of the occurrence of a cancer of the stump is an important factor since a cancer appearing within a few morths after on ra tion can bardly he said to have developed completely within that period of time also of importance in determining whether the cervical neoplasm repre sents an entirely different process from the tumor of the uterus or a inexa are its histological character istics. With regard to the incorrect interpretation of statistics Pinsan says that some gynecologists ha e hased their conclusions on the general incidence of cervical carcinoms in all cases cornine for treatment instead of only on ca es in which the carcinoma de eloped after hysterectomy

Passia doubts the eff cacy of total hysterectomy as a prophyla of te measure since carcinoma has been known to develop in the vaginal stump. Operations v inch cone out the central canal leave behind a per tion of cervic with poor drainage and impasted circulation factors which in themselves may favor the development of cancer. Viorece or the mortality of total hysterectomy renders is routine use inadius able as a r.y. philattic procedure.

For the treatment of carcinoms of the stump rad am th raps is to be preferred to radical operation Hazond (Mack MD

Whitehouse B Uterine Hamorrhage with Special Reference to Malignant Di ease La t

The author at tes that the symptoms of cancer of the uterus are often so trivial that they are regarded as purely physiological phenomena. To explain the tendency of the uterus to bleed irregularly and excessively at the time if the men pause he resews the ph stology if menstruation. I mong the cau esof postmenopausal harmorthage are

i Lateo ulation The author saw a recent corpus luteum in the arv of a oman sixty sex n sea s of age which as removed with the uterus because of postmenopausal bleeding

Adenomatous mucous pol pus of the endometrum. This may occur at an sge after puberty. Endometrial scouths and hypertr phy are associated with a low intra uterine tens on In cases of fibroids chronic subin-olution and fibro: the uterine cavity is increased in all dimensions the just quietne tension I eing therefore low therefore the contract uterine tension I eing therefore low the contract uterine tension I eing therefore low therefore

Four types of uterine hemorrhage s buth may occur during or after the menopause in association with uterine carcinoma are

t Epimenorrhæa or too frequent menstruation. This irregularity is intensified in a me cases because ocstrus and orulation do not synchronize as under normal conditions

2 Menorrhagia or excessive menstruation This is usually associated with fibrosis of the uterus

3 Menostatus or prolonged menstruation. This is prohably associated with the pressure of dead and immature ova in the ovary (fibrocystic ovaries) and

partly with local abnormalities of the endometrium

4 Metrostrum or hierorrhage unassociated with
menstrual factors. The most important form of
hleeding in this group is that associated with coities

In conclusion the author says that the definite exclusion of a malignant tumor of the uterus in the presence of abnormal uterine bleeding requires a pelvic examination and often curetta.

Harry M N 150 MD

Bonney \ The Technique and Results of Myo mectom) Lant 1 1931 ccxx 171

The author helieves that cases of fibrouls beyond the scope of consernat e surg ry are knoomnon. While he does not claim that myometomy is the operation of choice in the majority of cases he helieves that it should be chosen in preference to radical operation in most cases of women unlet forty one; ears of age.

Bonney has performed myomectomy 403 time. The tumors were solitary in 166 cases and multiple in 237. The number removed in a 5 mile case has varied from 15 to 125. I onney has performed multiple momectomy in cases in which the total mass was the size of a full term pregrance.

The operative mortality was 17 per cent—about the same as that of h, terectomy performed by experts. In 3 per cent of the author s cases h, terectomy was necessitated subsequently by men throids menorrhaps; or some other condition.

Of the nomen of child bearing age who were subjected to momentom; 39 per cent be ame pregnant after the operation. Seventy five per cent of the infanty of these vomen were born naturally.

Harmostas's is of great importance in misomee tomy. The author has designed a claimy with compresses both uterine arteries at once so that his n a ring forceps is placed on each outsingleist ligament all of the 4 main arteries of the uterus are blocked and the operation can be cattled out in an almost bloodless fill

The author usually explores the utenne cavily through a single median incision in its antenor wall and removes the fibroids through the poster r wall. In some cases, howe or he mikes the pomary incision in the posterior v. Il. Occasion ily he performs the Hood operation.

If REV. W. ALESSY M.D.

### ADNEXAL AND PERSUTERINE CONDITIONS

Stieve II Studies on the Human Osary (Reola h tung n a m nschl chen Lie st e ke ) at ht f & s at Frech 030 x 591

The author lay great stress upon the necessity of examining the entire overs in senial sections in order

to understand the hehavior of the organ as a whole even though its individual processes are known

The ovaries from a girl fourteeo and a balf years of age who had not yet reached puherty exhibited only a few developing vesicular folliculi up to 15 mm in size most of which showed degeneration

Of eight young women and girls ranging in age from fifteen to nineteen years who had had regular menstrual periods (among them five virgins) all had rather large ovaries weighing from 76 to 93 gm with a corpus luteum in the stage of development agreeing with the cyclic stage of the tubes and uterine mucosa All of the ovaries exhibited a sparse stroma a well preserved superficial epithelium an external layer from 20 to 30 micra in thickness and a zone 150 micra thick which was made up of small spindle shaped cells in a network of very fine col lagen fibrils The cortex which was from 300 to Soo micra in thickness contained numerous develop ing and small vesicular follicles in addition to pri mary follicles Connective tissue could be clearly demonstrated only by treatment first with silver salts and then with gold salts

In the deeper layers numerous follicles ranging up to 7 and 8 mm in diameter were found among the atrete follicles and the resultan of corpora lutea. In nearly all of these there was absence of evidence of degeneration the cumulus cophorus was well preserved and the owa were newly formed. The ova

were smaller in the larger follicles

However in every section particularly about the corpora lutes there were follicles in the process of degeneration which begao regularly with degeneration of the ova Steve regards the theca cells as derivatives of the histocytes and states that with the atrena of the follicle most of the theca cells revert to histocytes After degeneration of the stratum granulosum the hyalod stratum develops In man the degeoerating theca cell never plays the role of an interstitutal gland. As more follicles hecome atretic aod more corpora lutea degenerate more connective tissue develops to replace them the connective tissue develops to replace them the connective tissue develops with age.

In young girls a large number of normal vesscular follicles is not pathological. Since the term—cystic implies disease the term—microcystic degeneration is usually inappropriate. In true cysts no normal own or granulosa is present. Sometimes a true small cystic degeneration occurs as in the case of a woman twenty years of age who had a rudimentary solid hicornate uterus and quite markedly enlarged ovaries. The well known hehavior of such ovaries without normal function is attributed by Steve to the influence of the almormal tubes and uterus.

During pregnancy the hehavior of the owaries waries with the individual. At the end of pregnancy corpora lutea are not found as a rule, but there are a large number of structures which may be the remains of corpora lutea instead of attentic follicles. Steve has frequently found two or more corpora lutea at the end of pregnancy but only, once did he find any in the second month of pregnancy. As long as the

corpus luteum is preserved in pregnancy an un usually marked degeneration of follicles is noted in both ovaries and there are few or no developing follicles or corpora albicantia The primary follicles remain unaltered Occasionally the corpus luteum degenerates as early as the fifth month Prolifera tion of the theca cells may not occur. When the corpus luteum is absent a much larger number of small vesicular and cystic atretic folliculi of the usual structure develop during pregnancy. In two cases Stieve found at the end of pregnancy large vesicular folliculi as well as the smaller types all with cumuli cophori but no corpora lutea. The conclusion to he drawn from these findings is that the formation of new normal follicles is prevented by the corpus luteum and can take place only in its absence For this reason menstruation may appear as early as the third week of the puerperium In the gynecological clinic at Halle there was a woman who began to menstruate hetween the twentieth and twenty second day of the puerperium after each of ber five pregnancies. The individual differences are dependent upon constitutional and therefore unkoown factors

The article is supplemented with illustrations ROBERT MEYER (G)

Meyer R A Contribution on the Question of the Function of Tumors of the Osaires Especially Those That Lead to Defeminiuszation and Mas cullinization Arrhenolhastomata (Bestrag zur Frage der Funktion on Tumoren dr. O aren insbesondere sol ber de zur Entweithichun und zur vermaennlichung fuehren A henoblastome) Ze traßl f. Opuzak. 1930 p. 2374

The author urges all go necologi is to observe the symptoms which are produced by ovarian tumors Granulosa cell tumors have the same hormonal

effect upon the endometrium as folloular cysts that is they produce hypertrophy of the uterus In socalled precocious menstruation resulting from ovarian tumors it should he determined whether the hleeding is functional

Dysgerminomata (large cell solid carcinomata) oc cur in young persons in some cases in association with hypoplastic genitals and aplastic gonad and in others with hermaphroditism. The menses are often absent in mature womanhood. The author brings up the question whether or not the mucosa has a function. Up to the present time nothing is known with regard to a hormonal function of these tumors.

Arrhenoblastomata are tumors leading to mas cubinization or defeminization. These neoplasms are of two types the adenoma tubulare testiculare (Prck) and the solid very atypical epithelial tumor. They are markedly different morphologically but alike functionally and helong together formal genetically. As evidence the author cites four cases which showed transition pictures and helonged at one time more to the first and at another time more to the second group. This intermediate position is also manifested functionally by greater or lesser

signs of defemininzation and only in some cases by signs of masculinization (deep voice or write hissuities). The author designates these tumors as arrhenoblastomats or anderioblastomats (maculinizing tumors or tumor ususe of a male character). Climical signs of masculinization are often entirely absent in cases of tubular adenomata but frequently the signs of the defemininization are not noticed by the climican the masculinization are not noticed by the climican

In order to learn more about the nature of these tumors and to study their hormonal effects every case should be carefully reported. Only collective investigation can make advancement possible. The

author reports two cases

The first of Meyer's cases was that of a woman aged thirty one years who had had regular men strual periods since her fourteenth year of hie. She gave bitth to a child at the age of twenty one and had had no abortions. At the age of twenty three the menstrual periods became irregular and at twenty five they ceased entirely. Since then there had been castration symptoms but the nationt an peared to he in good health. On examination the uterus was found to be small and atrophie To the right and behind it there vas a tensely elastic tumor the size of an apple. The tumor vas removed hy The menstrual periods ecurred from laparotomy eight to ten weeks after the operation and have per s sted regularly for the past seven years. The mi croscopie structure of the tumor is described and shown in photom erographs

The second case reported was that of a woman aged thirty say yea s who gave a bistory of an in erease in menstruation for the past half year. The flow lasted up to fourteen days. Salpingo cophorec tomy on the ight side sas done in gar. When the patient as seen again in 1920 she was in good general condition and her menstrual periods were normal but her facial expression was somewhat masculine and she had a deep male voice. The structure of the tumory in he case also is described

and sho in hy photomicrog aphs

Although the tumors found in these two cases dif fered morphologically they showed certain esem blances to those found in cases observed heretofore The autho classifes them vith the intermediate group of a thenoblastomata The endocrine effect consists first in irregular menstrual periods and later in persistent ameno rhosa. Meyer at tributes this effect to the p esence of the specif cally male directed germinal epithel um. The male germinal enithelium of the male in short the testis has no corresponding effect upon the anterior lobe of the pituitary gland's nee according to Zondek and Aschbeim its implantation and the injection of its extracts cause the ovaries of experimental animals to function Therefore t is not likely that the mas enhancing incretion of the tumors described causes an immediate functional disturbance of the female pituitary gland. However it is possible that the masculinizing inc etion of the tumors makes the normally produced hormone of the anterio lobe of

the pituitary gland ineffective through other gland the blood or the ovary II O Neumary (G)

#### EXTERNAL GENITALIA

Turenne A Congenital Absence of the Vagina
(Sus c c gin ta d vag a) An f d m d
Un d M tee d 1930 xv 725

The case reported was that of a patient (wenty five years of age with congenital absence of the vagina and very probably of the internal genital organs. Operation was performed by the method of Frank and Gesat. A flap was cut from the inner surface of the thigh and its inner borders were suitared together to form a colinder. The hase of the cylinder was left connected with the rest of the skint to maintain the blood supply. A cavity was then formed by cleavage of the rective sexical space and the cylinder sectioned fonguidnally and invited so that the bleeding surface was eiternal. The cylinder was then introduced into the newly formed cavit, and the outer borders were suitared.

The advantage of this method is that it can be performed in several stages so that the vitality of

the flap is assured at all times

In the case reported the plastic and functional result was perfect. Twenty months after the operation no evidence of cicatricial atressa of the vagina was found.

#### MISCELLANEOUS

Ronsi valle A Histological Chang a in the Thymns of Prepubescent R biblis Treat dwith N in Specific Pregnancy, II rmone An Experimental Study of the Relations But even the Thymns and the Gential O gan (L in discussion) and the collection of the Collection of the Collection of the Gential Collection

The author treated different lots of rabbuts that had not yet reached puberty with the total urner of pregnant females the urne of pregnant females deprived of its content of hormone of the anterior lobe of the hypophys s human placenta and the urne of an adult man. All of the animals showed regression of the thy mus. In the groups treated with the urne of pregnant females and placenta this was particularly marked and puberty was premature. The author describes some special changes in the mitsritial cells of the thymusan the most ad anced stage of regression and shows them with photomerographs turner, Go s Mosch Wi D

Mich on J and Haou J Remote Results of Interest in son the Sympathett Pricularly the Pestrain Nerve in Gyn cology (Réult tell g &s ds l teve to sule sympathique gy é loge efpé cé aprituile) Gyé dont 193 xx 417

The earliest sympathetic intervention reported by the author was done six years ago. In this article eighteen such operations are added to the ten pre viously published. The twenty eight cases are sum manzed. In the first cases the authors performed a hypogastric penarterial sympathectomy. In later cases they did a resection of the presacral nerve. At the present time they operate on the pelvic sympa thetic a procedure which is practically the Cotte operation.

They use the Pfannenstiel incision. When the inferior bifurction of the nerve in the shape of an L is seen one can be certain that the resection will be successful. In cases in which the nerve is not per ceived when the personeum is opened it should be sought superficially rather than against the osseous layer. The nerve adheres to the deep surface of the personeum just as the ureter adheres to the deep surface of the posterior leaf of the broad hgament. The operation is completed by ligament fixation to prevent later retraction of the uterosacral ligaments with consequent uterine retropositions.

In tahulating their results the authors exclude eight cases Of the twenty others the operation gave good or excellent results in seventeen (85 per cent) and was unsuccessful in 3 (15 per cent). The indication for the operation was pain usually re bellious dysmenorrhosa. Several patients presented a syndrome of excitation of the hypogastric ganglion—acuite parxy small menstrual pain accompanied

by reaction phenomena in the hladder and rectum and often remote reflexes resulting in nausea vomiting and diarrhea. Less frequent was a more chronic pelvic neuralgia of vague localization. As a rule medical physiotherapeutic and climatic treatments were inefficacious and gynecological examination was negative.

In the seventeen cases in which the operation was successful the pain was abolished the periods were regularized and the general condition was improved Suhsequent pregnancy and lahor (two

cases) were not disturbed. The operation is indicated for pelvic pain from inoperable or recurrent neoplasms dysmenorrhea and pelvic neuraligna. When in cases of dysmenor rhea or pelvic neuraligna laparotomy reveals a lesion undiscovered at chinical examination such as an adenoimyoma of a utterne cornu a hæmatic cyst of the ovary or a sclerocystic ovary conservative operation for this lesion should he supplemented by the sympathetic operation. Resection of the pre-sacral nerve should he tried also for sensory motor or trophic disturbances associated with pruntus and rulive kraurosis vulve or vagnism. In such conditions it has succeeded when all other treat ments have failed.

The article has a hillingraphy of thirty six ref erences PACE

## OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

# Oxicy W II F The Rôle of the General I ractitioner in Antenatal Work B & W J 1931 I S

The author describes in considerable detail the antenatal work carried out in some of the counties of England. He maintains that the midufe has a definite place in obstetries if she is sufficiently trained to recognize abnormalities and sufficiently to call the general fractitioner in consultation when necessary. He believes that close co-of-cation he treen the mid sife and the general practitioner sill be er material mortality.

He describes pr noples of antenatal care in heart disease vagnutis cervicuts pyelonephrius and syphilis and urges that malpositions be dealt with early He advocates the use of Bust a binder in occupat posterior positions and an attempt at ex-

ternal vers on in breech positi as

He emphasizes the importance of recognizing, con tricted pelvis early. When the diagonal diameter measures 4 in hinduces labor at the thirty is the eek by krause a method. He states that existen section vas necessary for contracted pelvis only once in 10 376 cases. HARRY M. NEISO. VI.D.

### Peckham C. H. A Statistical Study f Placenta I revia at the Jol ns Hopkins Hospital & tw J. Ob f. & Gy 93 x 39

The incidence of placents pravia is about 1 case in every 50 del eries. It is higher in white vomen than in colored women

The maternal mortal ty in placenta prævia is stall high (8 % per cent) although it his been greatly reduc d in the past thirty five years. It could he decreased still further by the prompt hospitalization of all cases vith bleed ing and the more frequent use of transfus or.

In cases in v h ch the patient is admitted to the hospital in good condition with a liv pulse and be fore the harmorthage has become alarming the mortality is lo and does not i et a number of hours el pse before deli ery occurs. The mortality is highest a those in which deli ery occurs before a poor general e adition can be improved by intra e mous therapo.

The inc dence of premature labor is high but the maternal mortality is m re than 3 times as high when delivery occu s at or near term

About 15 per cent of cases of placenta præv a are tose of primpare. The incidence of central pla centa prævia in this group is lov (o t per cent). The maternal mortality is much higher in multip are and increase with see

Puerperal infection occurred in over half of the cases reviewed but caused death in only i Hamorthage was responsible for 13 of the 16 deaths in the series. Several of the women were almost rooribund when they entered the hospital II the deaths of these women and the deaths from causes unrelated to placenta pravia are subtracted the mortality falls to 580 per cent.

The prognosis for the child is grave. In about half of the cases the child we ghed less the n 2 or got at hirth and in more than 25 per cent the fetal heirt beat could not be noted on the patients as dissisting the hospital. I ven when these 2 groups are subtracted the fetal mortality (stillbirths and deaths occurring soon after birth) was very high

viz 38 71 per cent

The treatment of placenta prævia is still unsat s factory The mortality is best reduced by liberal transfusion. In the marg nal type of ca e the use of the hy irostatic bag gives good results. While the indiscriminate use of exsarean section might in crease the chances for the child it would probably not reduce the maternal mortality. Many of the nat ents a ho succumb are too ill or are bleeding too everely when admitted to the hospital to permit laparotomy In the eases of others casarean sec tion vithout subsequent hysterectomy would be associated with considerable danger because of the presence of infection from unsterile examinations or the use of vag nal packs before the patient's admis sion to the hospital Ho vever casarean section may be indicated in the cases of vomen with central placenta pravia i ho are admitted in good cond tion before or early in lat or and with a living and viable child and in cases in which the desire for a child counterbalances any increased risk to the mother E L COR ELL M D

### Durante and Lemeiand A Benign Placental Tu mor (T meur beng du place ta) Gynt ! g 110 xt 05

Durante and Lemeland report a benign placental neoplasm which in its pathogenesis differed some what from the benign placental neoplasms commonly described in the literature The tumor was an angio fibroma s tuated upon the choronic surface of the placenta Microscopic sections showed numerous capillaries arranged in mall g oups and occupying the center of small zones of fibrous tissue Morplelog cally these areas resembled placental illi except for absence of the peripheral epithelium neither Langhans nor syncytial cells vere present In some a eas the stroma had lost its myxomatous character and had become det nitely fibrous. In the deeper port one of the tumor the vascular elements nere more numerous and were separated only by a few fibrils of connective tissue Except for a slight in crease in the thickness of the endothelium which s characteristic of vascular neoplasms in general the capillaries were quite normal

Although tumors of this type have no connection with the neighboring placental cotyledons their origin from the placenta is shown by the typical chorionic stroma and the presence in the vounger portions of the growth of shadows of placental villa As a result of the lack of development of the Lang hans and syncytial cells the rudimentary villi do not come into contact with the maternal blood and hence do not take on a placental function Nour ished by the fetal vessels they exist as a distinct tis sue within the placenta The stroma develops apace with the connective tissue of the fetus to become well differentiated connective tissue

The tumors are therefore not primary but de velop secondarily to the agenesis of the Langhans and syncytial cells The apparent superabundance of vascular elements in some portions of the neo plasms is due to defective development of the stroma rather than to an increase in the number of capil laries The metaplasia of the stroma may be con sidered the direct counterpart of the hyperplasm of the epithelial elements of the villus in hydatidiform mole. In the benigh tumors agenesis of the epi thelial layer leads to loss of contact between the villus and the maternal blood stream whereas in hydatidiform mole the agenesis of the blood vessels leads to loss of contact between the fetus and the villus In both conditions disturbances in the cir culatory function are the prime etiological factors

HAROLD C MACL M D

Perv Severe Hyperemesis With Acidosis During Pregnancy (Syndrome hrusque de vomissements d allure incoe cible avec accton m e au cours de la grossesse) Bull Soc d'obst t de gyr éc de Par 1010 XIX 610

The author is of the opinion that obstetricians have classified too strictly the manifestations of the so called toxemias of pregnancy Most classifica tions show three main groups hyperemesis gravid arum alhuminuria and eclampsia. Such groupings are altogether too narrow since they do not include excessive vomiting without alhuminuria during late pregnancy the various states of acidosis without diabetes and certain nephritic conditions which respond to specific treatment and must therefore be attributed to syphilis as shown by Riviere

In this report the author presents two cases of hyperemesis with acidosis a type of hyperemesis which may occur early or late in the course of an otherwise normal pregnancy or following a definite toxic disturbance and does not fit into the usual scheme of classification He attributes the comiting in these cases to a sudden derangement in the hepatopancreatic physiology The symptoms and the asso ciated acidosis responded rapidly to treatment with insulin Pery does not attempt to explain the etiologi of this condition but assumes that since improve ment followed the use of insulin the pancreas was in HAROLD C MACK M D some way responsible

Anselmino k. J. and Hoffman F. tration and Dissociation Constant of the Acids Causing the Acidosis of Pregnancy (Ueber Kon zentration und Dissoziationskonstante der die Schwangerschafts acidose hedin enden Saueren) Arcl f Gynaek 1930 cxl 373

Investigations of the metabolism in pregnancy carried out heretofore have not led to definite con Hasselhach and Gammeltoft assumed originally that the blood reaction remains constant and compensation is made for the resulting acidosis Later investigators using widely different methods found an acidosis in some cases and an alkalosis (especially Siedentopf and Eisler recently) in others It was believed that the alkalosis was caused by overcompensation of the acidotic metabolism Most investigators ascribe the acidosis to oxybutyric acid directic acid and lactic acid. If this assumption were correct the increase in acid substances would be equivalent to the excreted bicarbonate but it can be shown that these acid valences equal only from one fifth to one seventh of the actual acid concentration

The authors have attacked the problem by other methods They have determined the effect of the acids in the serum on the electrometric titration curve The titration curve depends upon the disso ciation constant of the acid formed. The authors interpolate here a short clear review of the physico chemical bases of the buffer effect in displacement of the reaction The dissociation constant is of im portance because it is a measure of the strength of the acids The hydrogen ion concentration is en tirely dependent upon this value the concentration of the free acid and the concentration of the salt The technique of the estimations is described in detail The authors added increasing amounts of acids to constant amounts of the ultrafiltrate and each time determined the reaction electrometrically The normal titration curve was determined in this manner in five non pregnant women a number of normally pregnant women and a few women in the puerperium In several cases a third curve measured in a control solution similar in its constituency to the ultrafiltrate of pregnancy was taken as the so called control curve From these curves it was seen that beginning with the seventh month of preg nancy an increase in acidity of about 50 per cent develops A distinct acidosis is also demonstrable on the first day of the puerpenum

In conclusion the authors discuss the nature of these acids It is evident from the curves that ace tone bodies and lactic acid constitute only from 12 to 15 per cent of the total increase in acidity and that 85 per cent of the increase must be produced by other valences It is possible that oxyprotein acids and polypeptids play the most important rôle with perhaps the low fatty acids aiding in a small degree The concentration of this still unknown acid mix ture is about 1/110 normal as estimated with a medium dissociation constant of  $p_1 = 3$  6

KESSLER (G)

Seitz I. The Symptomatology Prophylaxis and Treatment of Eciampsia and its Fo crunne a (Zu Sympt mat l q Prophyl ve und Th pe der Eklampse und ih er vo tuf ) Ar h f G ach 193 ct 152

This article is based chiefly on the results of in vestigations in the author's on clinic. Sentz proposes to combat eclampsia particularly by treatment of its forerunner. One hundred and forty cases seen in the period from 1922 to 1929, ere studied.

Eclamp is does not come without narning It begins ith ordema (the hydrops of pregnancy due to a change in the permeability of the capillaries) This is a patholog cophysiological phenomenon of pregn ncy but it reaches a pathological degree when the slight swelling at the ankles rises to the The albuminuma (nephrosis) leads to preeclampsia with an increase in the blood pressure (the blood pressure characteristically sho is a slight increase in eclampsia) Another pre eclamptic symp tom is the diminution in excitability of the median nerve (cathode closure contraction with a 6 ma as compared with o o ma at the end of pregnancy and 1 8 ma in the non pregnant normal soman) cording to Seitz this decrease in excitability is the most important sign of the transition into eclampsia. There are also the changes in the urine The sub jecti e symptoms appear as a triad se ere head aches eye symptoms and gastric symptoms

After beffy mentioning the changes which pregnancy produces in the maternal organism which changes must be recorn ed in order to understand the yathological phenomena the author discusses also in great detail the prophylaus of eclampsia in its preliminary stages. He treats threatened eclamps as with cears an a section In existing eclampsia also he performs createan section when there is no dilt tion of the cervix other ise he uses version

and f reeps under proper conditions.
The conclusions as to the retrogression of the symptoms in pre-eclampsia and eclampsia are ery interesting. In gene it it is assumed that pre-eclampsia is the lighter f rm of the disease and that the changes produced by it d appear more rap dly than those of eclampsia. This is not correct. The curves obtained by the author which however were based upon a small number of obervations.

If PURTH (G)

Stroganoff B Th Result of t1 Tr atment of Eclamp in by Telephone Consultation (L s ésult is d t i m t de l'é l'mp re nui taton p t lépho ) Gy c i & i & gyo x 1 385

indicate that the reverse is true

The literature reports 6 103 cases of eclampsa treated by the prophylactic method and its modifications with a mortality of 10 25 per cent (635 deaths). These results demonstrate the great decrease in the mortal ty that would be possible if this method were generally adopted

The author review \$ 351 cases of eclampsia treated exclusively by the perfected prophylaetic method ince March 1925. The mortality was 7 1 per cent

In most of the cases he directed the treatment by telephone consultation. He believes that the mor tality can be reduced to 4 per cent

Fig. cases in which the treatment failed are reported briefly and the causes of failure are discussed. In some of the fatal cases the death was due to causes other than eclamps a and in some the author's directions were not follower.

The corrected infant mortality v as 8 6 per cent

Bland P B Goldstein L and Wenrich D H Vaginal Frichomoniasis in the Fregnant Woman A Clinical and Morphological Study J in M Ass 1931 XVI 157

I ollowing a review of the literature on trichomonas auginals in pregnant and non pregnant women a description of the methods of examination and cul tration of the organism used by themselves and others and a discussion of the morphology of the organism the authors report the findings of a study of the vaginal secretion of 500 pregnant women. In this investigation the parasites were found in 118

(23 6 per cent) of the subjects

The authors conclude from their own study of the organism in fresh material and on fresh and stained smears that it is distinct from other species of trichomonas found in man. It rather closely resembles the form found in the mouth. Some of its characters ties are in sharp contrast to those of the intestinal variety. The authors ere unable to obtain long lived cultures. The parister failed to grown on media which proved favorable for the intestinal variety. The failed is a word in 337 per cent of the 235 megro patients as compared to 132 per cent of the 245 metry patients as compared to 132 per cent of the 245 white patients. The authors suggest that this variation may be explained by differences in local hypeine conditions.

In 126 per cent of the cases in which the smears were positive there v as local irritation and in many there was a profuse annoying discharge. The vaginal secretion varied from the normal milky white material consisting of mucus and epithelium to a highly acid mucopurulent creamy yellow and often foamy discharge containing numerous bac teria vag nal epithelium leucocytes and hordes of The local morbid changes ranged tr chomonads from a more or less hy peræmic punctate injection of the cervix and vaginal walls especially about the fornices to an extensive intertrigo of the vulva and vulvar regions. In se ere cases the appearance of the vagina except for the frothy di charge sug gested an acute gonorrhoral infection. In only 2 cases however were the trichomonads associated with conococcal invas on

The relationship of trichomonas vaginal's to puer peral morbidity was studied in 152 cases. Regard less of the mode of delivery the mo bidity rate was considerably increased in both white and negro women suffering with the infection reaching 75 per cent in the former and 41 per cent in the latter

GOO RICH C SCIAUFFLER M D

Contarini F Subserous Uterine Myomata in Pregnancy (Miomi uterini sottosiero i in g avi danza) Chi i o let 1930 xxxii 611

Contamn reports two cases of pregnancy complicated by subserous uterine myomata. The first
was that of a woman tbirty eight years of age who
entered the hospital in a serious condition with
womting a small rapid pulse and intense pain in the
abdomen. Evanimation disclosed a pregnancy in the
fourth month and a subserous myoma with torsion
of the pedicle. The myoma was enucleated. The
pregnancy continued and ended in normal delivery.

The second case was that of a woman thirth five years of age who suffered from pain and vomting in the fifth month of pregnance, and noticed that her badomen was abnormally large for the stage of the pregnancy. One physician bad made a diagnosis of pregnancy with multiple myomata and another a diagnosis of twin pregnancy. At the seventh month the patient had pain and arm terrirhagia but the os did not dilate heyond 4 cm. A diagnosis of multiple tumors complicating pregnancy was then made Operation disclosed an enormous nodular tumor mass and a dead fetus seven months old. Uneventful recovery, resulted.

The author concludes that in cases of uterine myoma complicating pregnancy operation is indicated when (1) there is no doubt of the diagnosis and it is evident that removal of the tumor will eliminate the complications and allow the pregnancy to continue (2) there are signs of necrohosis and degen eration of the tumor (3) the myoma causes deviations of the uterus which will interfer with normal development of the pregnancy (4) there is torsion of the pedicle of the tumor with signs of peritoneal reaction and (5) the tumor everts pressure on the ure ter intestine or pelity cens

AUDREY GOSS VIDRGAN VI D

### LABOR AND ITS COMPLICATIONS

La Haye P The Influence of Artificial Rupture of the Membranes on the Progress of Labor (Influence della rupture artificialle della polibe dea eaux sur l'évolution de l'accouchement). Res f d gb d eld obl. 930 xx 657

This report is based on observations made at the Strasburg Clinic where arthrial rupture of the ammotic sac has been carried out routinely over a period of almost three years in all cases in which the membranes remained intact after the onset of labor. The author concludes that the classical conception of the bydrostatic action of the bag of waters in promoting dilatation of the cervix is erronicus. Not only is the bag of waters dispensable so far as the progress of labor is concerned but in many cases it serves as an obstacle cervical dilatation heing brought about entirely by the action of the longitudinal muscle fibers of the uterus.

Following rupture of the membranes uterine con tractions usually become more active and labor pro gresses very rapidly. While in some instances labor may he prolonged as a result of the procedure the author cites numerous instances in which dystocia was overcome by it

In cases of relatively contracted pelvis early rupture of the membranes aids prompt entrance of the floating head into the superior strait so that the uterine contractions hring about configuration of the fetal skull and its adaptation to the birth canal from the very onset of labor. In such cases as well as in those with normal pelvic measurements in which the head is floating this procedure hastens the advance of the head. Moreover it eliminates danger of presentation and prolapse of the umbilical cord as well as the spasmodic contraction of the lower uterine segment which is so frequently observed when the head remains high and does not enter the lower uterine segment which says frequently observed when the

In the technique described by the author the amniotic sac is perforated anteriorly with a perforator which makes only a very small opening so that

the fluid will drain away gradually

Postpartum infections operative interference and fetal complications have heen no more frequent in cases in which the membrines were ruptured artificially than in those in which the rupture occurred spontaneously. The author is convinced that this procedure is not only harmless hut also advanta geous. It may he carried out during any stage of labor. In the cases of primipare, it is hest done as soon as the cervity has hecome completely effaced and in the cases of multipare just before the cervity admits one finger. Before it i undertaken the patient must be definitely in labor. HARDIO C. YAKA, M.D.

### PUERPERIUM AND ITS COMPLICATIONS

Le Lorier Tzanck and Dalsace Immunotransfu sions in Puerperal Infections (Les immuno tansfus on dans li fection puerperale) Bill So d obst 1 de gyn c de Pa 1930 ix 612

The authors report the results of the treatment of puerperal infections by transfusions of blood from donors artificially immunized to streptococcus infections according to the method de cribed by Tzanck and Jaubert Eight of nine cases reported were treated by immunotransfusions and one case with non immunized blood. This method of treatment was resorted to only after other methods of treat ment had failed to improve the patient's condition Three patients with blood cultures positive for the streptococcus recovered quickly after small transfu sions of immunized blood whereas a fourth the patient treated with non immunized blood failed to recover Of the five patients with blood cultures negative for the streptococcus who were treated with the immunized blood three (including one with ervapelas) improved rapidly one whose blood culture contained an enterococcus failed to respond and left the hospital in a moribund state, and another developed a pulmonary complication from which she recovered slowly without showing any immediate improvement after the immunotransfusion

The authors regard immunotransfusion as the least dange ous and the most efficacious method of treating puerperal infections. While they emphasize that the proceedure is by no means a panacea since careful examination may re call an associated local or organic cond tion requiring supplementary treat ment by some other method (e.g. surgery) they belie e that early transfu ion from specifically immunized donors offers great possibilities.

In the discussion of this article LEVY SOLAL cited se eral cases hich he treated successfully by the method de cribed HAR ID C MAC MD

#### NEWBORN

Bock A Total Congenital Hydrop (U b le Hydrop lokt) Zt I f Ge b lh (k 93 27

The author reports two cases f total congenital androps

In the first case the mother was a para ve age 1 t enty eight ye rs. One of her children vas living The others hich had been born a fe eeks fre matu ely bad died bet cen the second and fifth days from saundice. The om n had a m thed rdema of the ankles but no lbumin was f und in the u me Du ing expulsion fo ceps were applied as the fetal heart sounds were weak. The fe d vas del vered through a fac al presentat on further delivery as diff cult. The arms vere f eed but the trunk could be del ered only after puncture of the abdomen hich released large amount of intensely yellow clear fluid. The placenta as 3 cm thick 2r cm in diameter and ery cedemat us It eighed I 300 Lm The puerper um 128 une entful The Wassermann and Sachs Georgi reactions were

eighed 1300 fm. The purper um vis une enfful The Wassemann and St.chs Georgi reactions were ne attie. The fetus eighed 3270 gm. (ascites had dis ppeared) and vas 48 cm. log. It sho ed a ma ked gene al ordema the eves and mouth being recognizable only as thin clefts. The cranial bones shot ed ballottement a d the spleen liver and beart.

were found to be enlarged. There were no signs of syphilis. On histological e amination numerous foci of blood formation were found in the liver kidneys and spleen.

In the second case the mother 1 as a primipina aged thenty, five years to had a premature de livery in the sixth month. The fetus was in sacral presentation. The sacrium 1 as delivered sport arously but terminat on of the labor requ. ed puncture of the fetus for the evacuation of a collect on of fiul. The fetus pre entide general hydrops and was 36 cm long. The placenta was edemitious and excess et la farge. Syphil s could be evideded in the parents 4s vell as in the fetus.

I vaning and on of the bloot cells in these cases was

imp ssible and a blood picture in thick dr ps vas

obtainable only in the frist one. The latter sho sed numerous nucleated tery this cytes and juvenile forms fleucox tes. In both cases syphilis and cruilatory obstruction could be evoluted and the total congenital hydrops of the fetus and placenta described by Schrid le as present.

We cases of hydrops de cribed in the literat remay be divided into it to main groups. In one the crus tie factor is a circulator disturbance. In the their the child is born prematurely, and has many site of blood formation in the liver spleen and kid neys. The latter group was first differentiated.

crus it e factor is a circulation disturbance. In the ther the child is born prematurely, and has many site of blood formation in the liver spleen and kid neys. The latter group was first differentiated pith logically, by Schrid le and G. Iischer. The blood pricture presents a marked a zman with eryth roblasts a d mycloblasts. In the bo e ma row mycloblasts predom nate. The cause of the hydrops stiff undeterm ned but the author ass mes that it the action of a t in. Foci of blood formatin and erythroblastos may occur also in cases of the first group. They may be the results of the gener! a dema (R. Meyer). In almot all of the cases in the them there is a stable there was of lema or alloummura; them there I'le author belie es that the causes of to icosis may be re ponsible all of or engential by drops.

# GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Braasch W F Anomalous Renal Rotation and Associated Anomalies J Urol 1931 xxv 9

The various anomalies of the Lidney and their clinical significance have been widely discussed in recent years and many data of great clinical sig mficance have been reported Although the various renal anomalies in regard to form position and number have been described frequently anomaly of rotation has been referred to only briefly. Braasch has observed cases in which anomalous position and form of the renal pelvis was the most prominent or the only clinical evidence of abnormality

Abnormal rotation of the pelvis is variable in degree and may be described by the terms failure incomplete reverse and excessive not necessarily involve the entire kidney but may be confined to one pole and may affect only a segment of the pelvis and adjacent calvees. It may occur as the result of congenital or acquired factors When it is of congenital origin it is referred to as

Abnormal rotation second anomalous rotation ary to acquired factors is best designated by the term renal torsion Anomalous renal rotation may occur with or without any other evidence of congenital anomaly It is most frequently observed with some other form of renal anomaly such as fused or ectopic kidney

In fused kidneys the pelves remain situated on the anterior part of the kidney as the result of the inability of the kidneys to rotate. There may be difficulty in distinguishing between fused kidney and simple anomaly of rotation particularly if both pelves are involved. As a rule, these two conditions can be recognized in the urogram from the distance separating the two pelves since in fused kidney this distance is usually abnormally short Occasionally however renal fusion has been observed when the interpelvic separation was so great that fusion would seem impossible

Failure of the embryonic kidney to make its normal ascent results in congenital renal dystopia or ectopic kidney The kidney i usually abnormal in form and structure and as a result of failure of rotation the pelvis is situated anteriorly and is bizarre in outline The renal blood ves els are usually abnormal in number and arrangement and often influence the anomalous shape and po ition of the kidney and its pelvis Tailure of rotation has been attributed to the facts that the kidney is situated at a level below which rotation of the ascending colon is supposed to take place and in some cases it may be restricted by adjacent and aberrant blood vessels

When renal anomaly is characterized only by anomalous rotation the degree of rotation may vary and may be described by the terms absent ıncomplete excessive or reversed Although the pelvis may be in a normal position it is more frequently observed with either lateral or mesial displacement or with slight ptosis. It is usually situated on a level with the second lumbar vertebra However it may be slightly lower and is then distinguished from ectopic kidney by the fact that its blood vessels take origin at the usual level of the renal artery and vein With failure of rotation the pelvis hes on the anterior surface of the kidney With partial or incomplete rotation the normal axis of most of the calvees and the normal relation of the pelvis and ureter are retained although several of the calyces may remain anterior

Although evidence of anomalous rotation may be confined to one kidney there is often some minor evidence of anomaly of rotation in either the contour of the pelvis or one or more calyces in the other Frequently only one of the duplicated pelves is involved usually the lower. This condition must be distinguished from renal anomaly in which failure of renal rotation occurs secondarily Evidence of renal rotation may be observed with chinical con ditions in which it may be difficult to determine whether the rotation was primary or secondary

Abnormal rotation of the Lidney due to other than congenital factors may best be referred to by the term renal torsion This condition is acquired and may result from displacement from either extra renal or intrarenal pathological conditions such as neoplasms infections and pyelectasis renal ptosis

postoperative deformity and injury

Occasionally in the course of pyelographic exami nation a renal pelvis is observed which has a shape suggestive of congenital deformity and has been termed an embryonic pelvis. It is an elongated pel vis from which a series of abbreviated calyces extend laterally anteriorly or mestally at comparatively regular interval Like other forms of renal anomaly it is associated with other congenital defects

In summarizing Braasch states that anomalous rotation is apparently an important etiological factor in the pathological complications which frequently occur with renal anomaly. It is most commonly observed with renal fusion and congenital dystopia but may occur also without any other evidence of renal anomaly It may be the cause of urmary stasis and pyelectasis with resulting renal pain and may be regarded as a distinct clinical lesion

Renal rotation secondary to acquired factors is distinguished by the term renal torsion usually be recognized clinically from the absence of

other evidence of embryonic deformity

A sacculated elongated pelvis vith multiple abbre viated calvees extending laterally and an elongated cephal c calix are the characteristic features of the so called embryon c or congenital pelvis

Nephraig a of obscure causation is frequently associated ith anomalous rotation but surgical exploration may disclose little e idence of gross pathological change other than anomals

Muñoz Abud and Lira Renal Ptosi and Appen diciti (Pt nal ) ape d t ) Rev méd de Ch 1 93 1 845

In 1928 the author treated sixty five cases of ploss of the kidney. Thirty few ere treated sur gically. In the thirty others non surgical treatment as grien either because of serious insufficiency of the kidney, r because the patient refused operation of the thirty few patients operated on eitheren cres suffering also from chronic appear to this life classes pyelography showed varying legrees of baltarral hydron phrosi. In most of the case func

ton as ab ut the same in both kidneys. In cases the ad anced hydronephrosis true floating idney the renal p renchyma as affected and function as considerably impaired. In fitty of the setty fe cases roentgen e amination sho ed marked en netroptos. As the d gest is symptoms in some of the cases we rele ed by simple faction of the kidney it is se ident that the ver reflex.

The pre ence I chron c appen l citis may be masked by r flex pain but often there is pain at laste us pout med al to the anterosuperior spine of the thum. This point is lateral to and belo McHurney's point. The authors think it of great imp reance in the diagnosis of cases of chronic appendicit's associated thiptos s of the kidney hire quently in su h cases an operat on is performed for the appendic t s and the mobile kidney is neglecte i the sympt ms therefore n t being reise ed. This occurred a thre of the auth a cases Ho ever t is an even greater mistake to perate for pros s f the kidney and overlook chroni append c tis. The uthors he therefore dopted the practice of per forming appendectomy in all cales of operation for ptosis f the right L dnev

In it p rati n for prios sof the kifn y sf att n and dener at n of the pedic! For fixet on they use a band of its apon urosis hich has been kept in 90 p r cent alcohol for ab ut f rty days.

\*\*Dark G. S. M. R. M. D.

Lozzi V and Vital A The Py loverson R flux
(S i flu so p i
x h 588

Pyelo enous reflux a the passage of urm. dyes or contrast media from the kidney pel es int. the renal veins. Hann n and Lee Brown c neducide that there a neflux from the renal pelvi mot othe renal veins at a lower pressure than that necessary for renal secretion. Bird and M use conclude I that the reflux occurs into the tubules.

The auth rs stud ed the problem in rabbits and dogs—a group of n rmal animals and a group in which hydronephrosis had been produced. The pro-

tocols of the experiments are gi en. They show in agreement with the findings of Hynman and Lee Bros n that a reflux I dyes r opaque media into the renal veins occurs at a pressure lo er than that necessary for urin ry secretion. At higher pressu es there as slight flling of the collecting tubules but neither this nor the injection of the lymphatics was great enough to be of any importance. The resist ance as increased when the pelves sere filled with air The animals fid not shot any signs of d sturb ance until the pressure reached about 200 mm. He In a case in high infection occurred and resulted in urony onenhiosis a higher pressure was necessary to bring about pyelo enous reflux. In no instance vas there any inceration extravasation or infitration of the narenchyma

The reflux probably takes place by direct passage of the flu d from the formices of the lesser calces into the rich venous plexiuses at the bases of the pramids through slight its ons hich cannot be demonstrate I objecti elj. It takes place in readils, and at a lower pressure in hydronephrote ladneys than in normal kidneys. In clos d hydronephrotis it constantly rene is the flu d in the bottom urupy complitoris it occurs with greater d fluity. The authors conclude that the accidents is meitimes seen in pe elography are due to the passage of the opaque med um into the circulation in this ay.

Pi raceini P and Lucareili G An Expe imental Study of Hydron phrosi (C ir lut penm n ial lia sc d lia iron (r ) ir h i i d

In experiments to determine the difference in the nationicopathological changes in open and closed by knorephrosis the authors exam ned pieces from the alls of each sac taken from the 1 o poles of the kidney and the middle of the convex margin studed the effect of the estrarensal circulation on the de-dopment of the hydronephrot c process and the changes in form of the hydronephrot c kiney, determined the capacity for secret on and absorption of the hydronephrotic kiney by mixa, enous pyclosyphy.

th proselectan and still led the condition of the retrudue notothehal issue. The protocols of the e perments are supplemented with microphoto graphs. Closed hardronephors as a produced by sectioning and ligating the ureler and open hydro nephrous s by introducing a small perforated glass nadie into the ureler or compress agit ith forceps. It was found that no pen hydronephrous the chief

histological ch nge is a scleroite glomerulonephris. In lei in closed hydronephrissis the appearance for a brief per od of slight signs of degeneration of the epithel unto fits tubulers stollog ed by nodormat on of the stroma and atrophy of the parenchy matous elements. At the points is here the large evitarenal vessels enter the organ the parenchyma is well preserved and funct ning a long time after the beg name of the hydronephros by the properties of the hydronephros the shape of the

kidney changes slightly in the dog and markedly in the rabbit. In both but more particularly in the latter the distention of the organ is more marked in

the anteroposterior direction

The capacity for resorption of the hydronephrotic fluid measured by the intravenous injection of uroselectan and roentgenography was very marked in the dog and very slight in the rabbit. The difference is due to the difference in the extraernal circulation in the two animals. In the dog the capsule has a rich network of vessels whereas in the rabbit it has a poor one.

In the second period of hydronephrosis the glom eruli assume an oval form. One end of a line drawn through these ovals from pole to pole would run toward the hilus of the kidney and the other end toward the convex margin. The great resistance of the glomeruli as compared with the rapid atrophy of the tubule cells is perhaps due to their position as well as to their anatomical structure. The glomeruli which survive longest are the most peripheral ones which are least subjected to the pressure oil the hydronephrotic fluid and are nearest the zone of anastomosis between the intrarenal and extrarenal circulation. The reticulo endothelia system arto phies with the epithelium of the tubules and is finally replaced by collagenous connective tissue.

AUDREY GOSS MORGAN M D

Salleras J Painful Slight Hydronephrosis Its Treatment by Enervation of the Renal Pedicle and Nephropexy (Las pequena urone ossi dolorosas Su tratamento por la enervac on del pediculo renal y nefropexia) R v de esp c l d de isoc med rgent 930 113

The author calls attention to the relatively large number of patients who seek medical advice for renal pain that cannot be ascribed to the ordinary pathological processes affecting the Ludney. The pain resembles that of nephritic cold due to lithiasis but the latter condition can usually be ruled out by roentgenography. Tuberculosis and pyelone phritis are excluded by a clear urine and renal tu mor and the so called hematuric nephritis by the absence of hæmaturia. As a rule the cause of the pain hydronephrosis can be discovered by pyelos copy and pyelography.

The hydronephicois is caused by polar vessels which compress the real pelvis or disturb its mothity and the pain by congenital malformation of the ureter at the ureteropelvic junction. The malformation of the ureter produces no symptoms so long as the kidney remains in its normal position but when relaxation of the perirenal tissues occurs—as is usual after the twenty fifth year of age—they cause a characteristic renal colic which whave be gins when the subject is in the erect position or following a strain.

The author reports four cases treated surgically. In all the nerve filaments around the renal area were resected in an area 3 cm long and nephropety was performed according to the classical technique

Whenever abnormal polar vessels were found com pressing the renal pelvis or the ureter they were sectioned if their lumina were not too large

On roentgen examination after the patient's recovery it was found that the defects previously noted had disappeared or were modified. A cure resulted in every case

PR CASELLAS MD

Rodriguez Mollna L F and Hernandez Ibañez J H The Present Status of the Study of Uro genital Tuberculosis (Estado actual en el estudio de la tuberculosis uro genital) An de ci ug 1930 1 300

Although according to Cathelin about 10 per cent of the pathological processes in the urinary tract can be ascribed to renal tuberculosis the authors be lieve that tuberculosis of the lidney is only the third most common disease of the urogenital tract. They are of the opinion that the most common condition is gonorrheal infection and the second most common condition is fitnesses.

Tuberculosis of the kidney generally begins with symptoms of cystitis hematuria pyuria polla kuura polyuria or albuminuria Pain develops late and is usually due to secondary infection with retention Tumefaction is present only when there is obstruction at the ureter causing hydronephrosis.

In discussing the laboratory tests the authors emphasize that an acid urine containing pus even though free from bacteria should be regarded as evidence of renal tuberculosis. The technique of the procedure in searching for the tubercle bacillus is described in detail. A search must be made for foci tuberculosis elsewhere than in the urinary tract. The methods used to determine the site of infection of undertical catheterization pyelography cistography. Vesiculography and urography are discussed. The authors believe that even when the tubercle bacillus cannot be demonstrated the leucocytic deformation observed by Colombine. Legueu and Fisch is a certain sign of renal tuberculosis if it is accompanied by bleeding from the kidney and few if any bacteria.

The treatment of renal tuberculosis is medical only in cases of bilateral infection in which the functional efficiency of the kidney is so impaired as to make surgical intervention madi visable. The operation of choice is early nephrectomy or nephro ureterectomy. Before surgery is undertaken it is essential to ascertain the condition of the other kidney. When the disease involves the genital tract resection of the vas deferens epididymis testicle and seminal vesicle is indicated.

Several cases are reported with roentgenograms
P R Casillas M D

Pieraccini P The Physiopathology of the Ureter Subjected to Forelpressure (Sulla fisiopatologia dell uretere sottoposto a foreipressura) irch ital d chr 1930 xvii 585

Fo determine the effect of forcipressure on the dynamics of the ureter the author operated on rab

bits and dogs in some cases by the transperitoneal and in others by the retroperitoneal route and applied Kocher's forceps. Later he performed an e ploratory laparotomy and made roentren exam mations in series after the intravenous administra

tion of uro electan

He found that at the point of application of the forceps the forcipressure caused an annular scar which d d not occlude the lumen but caused stenosis Examination by retrograde pyelography showed that after se enty days in the cases of dogs and thirty five days in the cases of rabbits there as a constriction of the lumen at the point of application of the forceps and that abo e and below this constriction the ureter vas enlarged as compared with the ureter on the other side. The part of the ureter below the force pressure dilated first and then the part above it In the former of these portions the musculature atrophied particul rly the longitudinal layer. In the latter p rtion it first hypertrophied and later atrophied

Studies of ureteral function at laparotomy showed that the hydronephrosis which followed the force n essure was dynamic and not mechanical. During the application of the forceps the peristaltic waves descending f om the pel is became more frequent but stopped at the level of the forceps. The part of the ureter below the forcens remained motionless and atonic When the forceps ere removed a circular g oove remained in the ureter but this generally redistended after a few contractions of the upper part Recanalization of the ureter occurred very quickly when the forcipressure had not lasted more than twelve minutes. Peristalsis then continued from the upper part into the lo er part but the latter I chaved like an clastic rather than a contractile rgan Normal per stalsis was rarely seen in the lo ver part and somet mes it did not coincide with the peristalsis coming from the pelvis. Later the differ ence between the activity of the upper part and that of the lower became e ea more marked Normal peristalsis of the upper part was followed by an annul r st cling of the lower part which descended slo vly to yard the bladder. In the lower part and particularly in the part immediately below tl e forci pressure there as marked atony causing stagnation of urine which could be seen by means of pyelography with the intr venous adm nistration of proselectan Even seventy days after the forcipressure the caudal stump continued to react to mechanical stimuli vith normal peristaltic contractions

AUDREY GOSS MO GAN M D

II pburn T N D ne ation and Displac ment f tle U et r for kidn y Colic A w I gl d J

The e is a defin te group of cases of renul colic in which no patholog cal changes can be demonstrated and a diagnosis of neurosis of the kid ey or ureteral stricture may be made. The patients are usually highly sensitive vomen who react evaggeratedly to any pa a irritant The attacks are p ecipitated by emotional stress and require large doses of morphine for their relief The patients are apt to lose weight and their tissues tend to become flal by The sec ondary picture is one of loss of muscle tone neph roptosis Linked and redundant ureters and possibly a superimpose I true pyel tis. In advanced stages nephropery offers no telief

For such cases the autl or proposes the operation of denervation and displacement of the ureter his theory being that the renal colic is due to a violent spasm of the ureter secondary to an emotional disturbance hich is similar to spasm in other tubular structures Severing the ureter from its connection with sympathetic nerve fibers may prevent the spasms Displacement of the ureter from its normal bed prevents or delays regeneration of the sym pathetic nerves and takes up the slack in the redun dant ureter thereby giving better drainage

With the patient in the usual dersolumbar po i tion the incision is made from the costal margin to the pubic bone following the lateral margin of the rectus muscle. In this vay the ureter is e posed retroperitoaeally its full length. It is then I fted from its bed and displaced laterally until all of the slack is taken up and in its new position it is sutured to the nearest muscle structures with three or four fine sutures lightly penetrating its outer coat. The sound is then closed

This operation is simple and not dangerous and has little reaction. In a case in which it vas done in 1026 there has been no recurrence of the symptoms

and the function of the Lidney is normal Louis \ theer MD

### BLADDER URETHRA AND PENIS

Alumad C rre and largas Sypill of the Bladder (Sfistes al) A m d d Chie 93 1 98

For a long time syphil's of the bladder was thought to be extremely rare because it has no special symptoms and can be diagnosed only by cyst scopic examination I ven no v it is not seen ery fre queatly but the possibility of its presence should al ays be considered in the examination of patients with bladder symptoms of unknown ca se The history should be carefully studied for syphilis and serological examinations should be made

In tertiary syphilis there is a leukoplastic a gum matous as ulcerogummatous and a pearled form of bladder syphilis All of these have been described before The author descr bes a ne i form vh ch he In this condition cystos calls the squamous form copy shows small confluent elevations of the muco 5 membrane with intervening depress ons which give the impres ion of fish cales When large zones are affected the bladder has the appearance of mosa c with a mother of pearl color lilustrative cases of the d flerent forms are reported

In cases of stubborn dysuria syphils should always be thought of even if there is no hi tory t clinical symptoms of it. As the lesions are terti ry

the hest treatment is the use of mercury and the lodides. In the authors cases the use of mercury and lodides is generally preceded by preliminary cleansing treatment with neosalvarsan.

AUDREY GOSS MORGAN M D

Salleras J The Results of Electrocoagulation
After Suprapulue Cystotomy in Malignant
Tumors of the Bladder (Resultados de la electro
coa ulacion a ciela abierto en los tumores malignos
de vej a) R de especialidades Asso sied argent
19,0 v 1334

The author reports with photomicrographs eight cases of malignant tumors of the hladder which were treated by electrocoagulation after suprapubic cystotomy. They show that cases of degenerated pedicled tumors can be cured by this method when the degeneration is limited to the pedicle or is superficial at the site of its implantation. A cure can be obtained also by the endoscopic method but when this procedure is used a greater number of treatments and more time may be required. Sal leras cites a case which he treated by endoscopic electrocoagulation. The bladder tumor was cured but the patient died several years later of cancer of the stomach.

When there is deep infiltration the general condition may be greatly improved by electrocoagulation of the tumor but cure is impossible because the glands are invaded and as a rule metastases are present. The author emphasizes the necessity of paying greater attention to urinary symptoms particularly hematuria without apparent cause and spontaneous cystitis as these may lead to the diag nosis of malignant tumor of the hladder in the early stages when cure is still possible

In the discussion of this report ASTRALDI said that he had treated fifty three cancers of the urinary tract but the results were not successful as all of the lesions were in an advanced stage. He noted a high incidence of bone metastases particularly in the lumbrosicial spinal column. He helieves that in cancer of the hiadder prostate and kidney surgery is contra indicated.

SCHIPP WHETRA cited a case of spindle celled sar coma of the hladder which was cured by two applications of cystoscopic electrocoagulation

CASTANO said that in his opinion electrocagula ton increases the malignancy of cancer of the hlad der. He regards it as always contra indicated in cases of sessile tumor. Even in cases of pedicled tumors in which complete removal of the neoplasm was possible he has known it to be followed by metastases in the bones.

AUDREY GOSS MORGAN VI D

## Silbar S J Paraurethritis J U 1 1931 TV 85

Silbar discusses the anatomy and umbryolory of paraurethral ducts calls attention to their importance in chronic and recurrent gonorrhora and describes the technique of their roentigen diagnosis with the injection of a radio opaque substance. He advocates treatment by drainage followed by obliteration of the ducts by caustics or cauterization.

GILBERT I THOMAS M D

# SURGERY OF THE BONES JOINTS MUSCLES TENDONS

# CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS FTC

Coley W B Multiple Myeloma in 5 g 93

The purpose of the article is not so much to report additional cases for imparate ely rare desare but to thror some light upon the problem of treatment although mult ple my cloma as gene ally considered to be all as a fatal. The condition is usually very sensite et the towns of evsipelas and bacillus prod ground and to irradiation. The inhibitory action of these agents is suffer in to cause great anchorition of the symptoms in most case, and disappearance of the tumors with apparently a lasting cure in a f

Multiple myel ma is a vely rare disease but in recent year the e ha been an nerease an the num be of cas s report d due in part to the steadily groing interest in the study of bone tumors

The predisposing cause of multiple myeloma is not known. The 1 t symptom 1 calized pain which i usually intermittent and logger arely by movement. The turn rolling more ment for turn rolling more frequently in the big portion of the hind in the mark. It devel possif equently in the big pin humerus femur hace and pel. Of the cases seen in the Johns Hopkins If spital Baltim e fracture occur et and pe pec can then fracture occur et and per centre when fracture occurs in the spine paling a max level p. Benc. Ji nes bodies have been obe et al. and out 8 pricht feeses.

The onig n grim re eals punched ut areas. The centgen appearance of single lesson of elvironment is that I are no lothelial myeloma.

Coley has had 1 teen cases Tyche of the pattints e males. The ags anged from system that eight year 11 c scope examinations we e made nelev neases. It to yof trauma as given in e en

The cause of the condition unknown in Soprecent fithe case on ector the listense or urrelbet een the ages of first and sevents years. Its multiplecha act roughests that it is constitutional disease carried in the ciculation. Coley believes at is an ext in secondary process. The sizes is supported by the occar onal marked rise in the terme at use.

The cond ton most likely to simulate mult ple myeloma chinically is endothelial myeloma but multiple myel ma the dest act ve p ocess is less widespread and is much mo e ascular olten shor ing a distinct pul at n Moreover endothelial myeloma occurs f equently in childho d whe eas multiple myeloma is are before the lortetth vea

While the roentgenog am of the sol tary type I multiple myeloma I a long b ne may resemble

closely that of a giant cell tumor the giant cell tumor is usually I und near the epiphysis of the bone thereas multiple myeloma occurs in the shaft Moreover in multiple myeloma the course of the issense is more rapi I pathological fracture occurs more quickly and the pain is much more

severe.

Nother condition that may be mistaken for multiple mycloma is metastatic extremoma but Rence J nes protein is rarely found in metastatic carrenoma and multiple mycloma usually modese the flat bones; hereas metastatic carrenoma occurs more frequently in the long bones. In metastatic carcinoma of the prostate there is a certain amount of bone production but in multiple mycloma the process is always one of destruction.

Symmers has reported two cases of multiple my cloma in which metastases were formed in the

inver an i spleen

In discussing the results of treatment. Coler dissides the cases the views into three groups. The firig up included three cases trated by mix distance of the cases trated by mix discussed to the cases that the cases the cases treated by towns and irridation alone. In a number of the cases the discusse vis held on check first very conside able period of time by 1 mis or 1 rid ation or a combination of the cases that the cases the cases vis held on check first visit of the cases the considerable period of time by 1 mis or 1 rid ation or a combination of the cases and the case that the

In conclus on the autho says that no case of multiple myeloma shoul I be given up as hopels without a prolonged trial of both towns and irrad tin Rary Four MD

A k Upma k E A Study on the Pa athy ld Enlarg ment in O t itls Fib sa Gen ralisata 1 t d S d 93 l 284

The author reports a case of Figel Reckling hausen of tells fibrosa general ata which vas beeved in the medical el nic of Lund and reviews the recent literature on the condition

Lulargement of the parathyroid glands is usually associated with osite its fibroast general sata but in an occas, and case may be absent. In other diseases I is much less constant. The auth revier the various theo ies as to its relationship to the osterior of the present two ledge indicate that it is primary to the bone disease. It any rate the parathyr ids are of gest importance in the metabols on of calcium and in osterior for the primary of the properties of the properties

Engel Recklinghausen osteitis fibrosa generalisata must be differentiated especially from the osteitis deformans of Paget

In every disease involving the bones palpation of the neck should be done and the blood calcium

level determined

In osteits fibrosa generalisata parathyroidectomy is often followed by obvious improvement. There is a certain danger of postoperative tetany but as a rule this can be easily controlled. The author be lieves that parathyroidectomy should be done in every case in which the parathyroids are found to be enlarged.

In conclusion the author discusses the calcium metabolism in osteitis fibrosa generalisata the heal ing of fractures certain affections of the kidneys and Basedow's disease

# Steindler A The Tabetic Arthropathies J 1m M 1ss 1931 TCV1 250

This article is based on sixty four cases of tabetic arthropathy with involvement of ninety nine joints. The etiology pathogenesis pathology roentgen find

ings and symptoms are discussed

Forty two of the cases were treated conservatively, and 12 surgically. Ten received no treatment of the cases treated conservatively the condition was benefited in twenty four and was not benefited or became worse in twelve. In six, the period of observation is still too short to warrant an opinion as to the outcome. Of the twelve cases treated by operation in which fifteen joints were involved improvement in function resulted in nine joints and no improvement in five. In the case of one joint the end result is not yet known.

Roentgen examination often shows the first evidence of on coming tabes. When such evidence is noted immediate and adequate protection of the joint is indicated for although the changes in the nervous system predispose to the arthropathes mechanical and traumatic factors influence the

course of the joint changes

LIVEN I BERLHEISER M D

Davenport H K and Ranson S W Contracture Resulting from Tenotomy Arcl S rg 1930 x Pt 1 996

My ostatic contractures are caused by fixation of the muscle at a given length for a considerable period of time such as the contractures restricting the movements of joints after immobilization for weeks in a plaster cast the permanent shortening of muscles after division of their tendons and in their early stages at least the paralytic contractures due to unequal paralysis of antagonistic muscle groups in anterior polomy edits and multiple neuritis

Farly contractures can be overcome by active and passive movements but if left untreated result in damage which is irrepurable. Froehlich and Meyer have shown that this fixation of an immobilized muscle is dependent on nerve impulses from the central nervous system. The fact that section of the

dorsal roots supplying the muscle is sufficient to prevent contracture indicates that the integrity of the local reflex are is essential for its development

Brissaud's observation that an anemia of the affected extremity produced by an Esmarch band age has a relaung effect on the shortened muscles suggests that the shortening is maintained not by structural alterations in the muscle but by a chemicophysical equilibrium which is disturbed by the anemia

This article describes the micro copic changes that take place in the gastrocnemius muscles of white rats guinea pigs and cats in which the tendon of Achilles had been sectioned and compare these changes with those associated with tetanu contracture. The size and shape of the sbortened muscle was the same in both conditions but in the muscles in which the contraction followed tenotomy the increased vascularity characteristic of tetanus muscle in gross aspect was absent. The amount of shortening in the two types of contracture was similar In the animals subjected to tenotomy the gastrocnemius was completely freed from tension by section of the Achilles tendon whereas in thos with tetanus contracture it was freed only from the tension of antagonistic muscles by section of the patellar tendon After tenotomy there was a 20 per cent loss of weight in the muscle. In tetanus no loss of weight was shown but it is known that atrophy may occur even from fifty six to one hundred and ten days after recovery from tetanus contracture

Nuclear aggregations which replaced the contractile substance in portions of the arcolemma tube were found in tetanus but not after tenotomy

Connective tissue was not demonstrably increased in either contracture though nuclei of the wandering cell type were more numerous in both

In both types of contracture there was a slight increase in the number of muscle nuclei in scattered fibers but in neither was it marked

RUDOLPH S REICH M D

Meyerding H W Spondylolisthesis f Bone &

Subluxation of the lumbar spine spondylolis is of special interest to the orthopedic surgeon as a congenital or traumatic factor in the etiology of pain and deformity in the lower part of the back. Of the 125 cases reported previous to 1900 all but 6 were reported by obstetricians The use of the roentgen ray and careful manual examina tion of the spinal column has shown that the condition occurs as frequently in men as in women and has explained a number of previously baffling com plaints in the lumbosacral region Pain in the lower part of the back which is relieved by rest argrayated by work and associated with industrial injury suggests the possibility of rulroad spine or traumatic neurosis vet these disorders are commonly com plained of by persons with spondylolisthesis whose appearance is often normal and who seem to be

enjoying undeserved disability benefits. Our present knowledge of the deformity makes it possible for the physician t recognize it determine the factors esponsible for it and relieve the symptoms to a large extent yet in Meyerding's experience fewer than 5 per cent of the cases had been diagnose i prev ously

T auma is an important cause of spondylol's the is and obesity p egnancy and occupational st ain may produce it gradually Sudden severe injury may instantly cause subjurtation with immediate disability and pan Housever concenital defects. ariati ns f the fifth lumbar vertel ra and lumbo sucral joint are c mmonly noted during examina Such defects do not always cause symptoms but hen trauma tests the stability and strength of the defects e structure a cakness is manifested by strain subjuvation an i def rmits. With the modern techn que of making ro nigenograms defects of this type a emore easily r c gn e land sp ndy folisthesis s more read by distinguished from tubercul sis and other less ns

Of the series it a cases observed at the Mayo Clase in the period from 1018 to June 1020 85 (62 per cent) ere th se of males These cases theref e did not bear out the observation f others that the con lit on is more comm n in females. The ave age age of the patients seen at the Mayo Ci me as appr v mately the ty seven years. Toriy seven (about 38 per cent) of the patients ascribed the deform to to tr uma. In most I the 74 eases in high a history of trauma yas g on the on et of the t ouble had be n gra lu I and the durat on long from one to forty six years. Lifty patients com plained of backache 35 of fain in the back and legs 21 of ceasional numbriess in the legs 15 of pain in the back and hips q of pain in the legs q f ague indefinite imptoms 4 of occasional yeak ness in the i gs and ; of pain in the h ps Although

backs he as the most comm a symptom an equal numbe of p t ats complaine i of pun referred to the h ps an I legs

Re t usually g v rehef but ork especially hard lab r gg a ated the pain The pan was usually of a dull a h ng chara te Weakn and st finess of th spinal clumn see comm als ackn sledged then inquiry t as made regarding them. Only a fe patients had noticed deformity aith ugh shortemore of the to so and a decrease in he ght had occurred in many cases

The clinical data which led to the diagnosis of spondylol sthesis vere lord sis with a shortened torso I mitation of pinal motion and depression at the fith lumbar verteb a 1 ith prominence of the

upper posterior bo der of the sacrum

The diagnosis is mad largely by inspect on and palpation on the basis f a depression is the region of the fifth lumbar e tebra with prominen e of the sacrum more or less spism of the muscles and limitation of forward bending verified by roentgeno grams. If there is marked f rwa d displacement the condition is readily r c grized chinically Roentgen

ograms are of the greatest aid in determining the diagnosis especially in the lesser d placements and in distinguishing tuberculosis fractu e congenital anomalies and sacro iliac disease

Congenital anomalies are not uncommon about 20 per cent of the series of cases reviewed spina but da occulta was shown in the roentgenogram. One should not depend on the anteropo terror roentgeno gram alone the lateral view is of much greater value and should be taken so as to include the lumba spine and the sacrum Stereoscopic roentgenograms aid materially in the study of congenital defects

Relief of the symptoms is obtained quickly by complete rest flat on the back on a rather f m bed Traction and countertraction may also be benefic al Millimpts to reduce the displacement have been of no avail but in acute traumat c cases they should be made under anæsthesia and followed by the application of a high double spica cast patients obtain tel ef from pain and have a feel ng of security and comfort when wearing a well fit d body cast Many patients especially those of the obese type prefer a c reet with re inf reed steel stays fitted veli dos a back of the sacrum For the who must nork and a hose physical condition pe mits surgery offers the most ranid and permanent rehef

Plaster cases braces and e reets are defined by beneficial when they are properly applied and nora-Because of the long duration of the deformity manipulation has not been tried No attempts have been made to reduce the displacement by open operati n The fusion operation is a lessible unles the general condition contra indicates a surgical proce lure

### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Hibb R A Ri ser J C and Fe guson A B Scoll sis Trated by the Fusi n Ope ation An End R suit Study of 360 Cr J B 1 15 g 93

The authors review 360 cases of scolios s treated by fusion in the period from June 1924 to June 1927 Four hundred and twenty seven pe it ons vere performed. In 37 cases of fusion of a do sal curve fus n was done also for an anomaly in the lumbosacral egion. In 19 cases the ong nal fusion vas extended in 7 cases a pseudarthros s was re paired and in 4 cases the fus on was done in 2 sec tions The longer the a ca fuse lat r perat on the g eater the p stop rative reaction. The mortality was 16 per cent (7 deaths)

about 63 per cent of the patients ne e females In 44 per cent of the cases the cause of the scolt s s was infinite paralysis and in 4 pe cent it 28 a congenital anomaly In the others it could not be det rmined The onset of scol sis; c nfined almo t shally t the pre adolescent years. In 56 per c nt of the cases reviewed it occurred between the ag s

of fi e and ffteen years

In some of the cases treated in the period from 1923 to 1927 a plaster shell was used the first two weeks after the operation and then replaced by a fixed jacket for from five to twelve months to insure support while the fusion area was maturing

The authors state that the operation should be done early in the progress of the deformity as it is easier to prevent scoliosis than to correct it

In the follow up of the cases reviewed a large percentage of the patients were examined with the roentgen rav

On an average the degree and percentage of correction in similar areas of the spine vary directly with the age of the patient and the duration and severity of the curvature. Not including the patients who maintained the correction obtained by opera tion there were 50 per cent whose curvature showed no increase of the original curve after fusion 15 per cent who maintained more than is degrees of correction I per cent who maintained from 5 to 15 degrees of correction and 47 per cent who showed no increase in the curvature

The most constant sign of pseudarthrosis is loss of correction shown by either clinical or roentgeno graphic examination It is most frequently noticed immediately after the removal of the jacket usually at the crest of the curve and continues to increase

slowly for the next few months

The selection of the area for fusion is important Tusion of only the secondary curve allows an in crease of the primary curve. The determination of the area for fusion is most difficult in early paralytic high dorsal curves when the longer secondary dorsolumbar curve attracts most attention Fusion of the lumbosacral area in an attempt to maintain correction or prevent progress of a lumbar or dorso lumbar curve has proved of little value

Of 18 cases in which spinal fusion was done be cause of pain in the back it resulted in complete

relief in 15 and partial relief in 3

Present treatment includes maximum correction before operation by means of a turnbuckle jacket with an anteroposterior hinge which provides a combination of head and pelvic traction with a complete lateral bend To avoid any loss of the pre operative correction at the time of operation the operation is now done through a window in the jacket In short segments the fusion is accomplished in 2 operations and in very long segments in 3 operations The patient remains in the corrective jacket for three months After the removal of this jacket he wears a supportive jacket without traction for from three to nine months

ROBERT C LOVERGAN M D

The Correction of Drop Foot by Contargyris A Posterior Arthrodesis J B ne & Jont Surg 1031 311 54

This article is a report of the end results in twenty cases of drop foot operated upon by the Nove Josserand method-eight in which the operation was performed by the author and twelve in which it was done by Nove Josserand The Nove Josserand method is a modification of the Campbell operation It differs from the latter in that the scaphoid is not removed and the bone used for making the block posterior to the ankle joint is obtained from the os calcis by turning a bone flap backward from that bone at the posterior margin of its astragalar articular surface

In eighteen of the cases reviewed the result was excellent and in two it was good. Even in three cases in which the bone block was fractured there was still a sufficient bone mass to form an efficient block. It is thought that this method of pedicle bone flap insures better results than other methods in which free bone transplants are used \arus or valgus deformities are also corrected at the same operation by arthrodesis on the subastragaloid and mediotarsal joints performed as in other methods WILLIAM ARTHUR CLARK M D

### FRACTURES AND DISLOCATIONS

Plaster Embedded Skeletal Traction Its Use in the Treatment of Fractures Sug Gynec & Obst 1930 li 85

In certain types of fractures of the lower ex tremity in which the Steinmann pin is employed for skeletal traction. Speed embeds the Steinmann pin in a plaster of Paris cast. In cases of fracture of both bones of the lower extremity in which it is difficult to maintain the fragments in proper alignment and position after correction of the shortening with the aid of the fracture table and the insertion of a pin through the malleoli or the calcaneus a plaster of Paris cast may be applied from the upper thigh down to and including the toes and incorporating the pin After release of the limb from the traction on the table the relationship of the fragments remains as it was and the reduction is held without danger of plaster pressure on the soft parts the pressure or pull being transmitted to the distal part of the leg through the pin by its skeletal grip

Speed recommends the use of the plaster em bedded skeletal traction also for fracture of the leg treated by open operation and for lipping fracture of the tibia with or without dislocation of the ankle

RUDOLPH S REICH M D

Speed k The Blood Serum Calcium in Relation to the Healing of Fractures J Bo ic & Jos Su g 1031 XI : 58

Experimental fractures were produced in dogs in which the calcium and phosphorus contents of the blood serum were changed by diet or gland disturhances In the first experiment the calcium was reduced to about 9 3 mgm the phosphorus to about 3 mgm and the product (serum calcium per 100 c cm x serum phosphorus per 100 c cm ) to about 28 per 100 c cm The animals in this experiment showed no climical or roentgen evidence of delayed union

In the second experiment fractures were produced in dogs with a high calcium and low phosphorus content in the blood as the result of the feeding of calc um lactate The animals showed no delay or acceleration of healing of the fractures

In the third experiment in which parathyroidec tomy was done there was a decided delay in bone

healing after the operation

In patients with fractures studies of the blood chemistry showed that immediately after the frac ture the phosphorus content of the blood is low but the calc um content is normal With n t enty four hours the phosphorus rises but in from three to five weeks it comes down slowly whereas the calcium remains about stationary Diet has little or no effect on the calcium or phosphorus content of the per pheral blood

The author concludes from his finlings that estimations of the bloo I calcium and phosphorus are of no alue in the prognosis of the results in fractures

WILLI M IRT UR CL RK MD

Janz G The Healing and Late Results of Frac of the Elbow in Clildren (il il g ad Sp tfolg n k dl h 11 bogenbru ch ) Ch 93 838

This is a report of follos up examinations in forty to cases of fracture of the elboy in children h ch included t enty one supracondylar fractures nine fractures of the lateral condyle seven of the medial epicondyle three of the neck of the radius

and t o of the olecranon

In the cases of sur racondylar fracture the best results were obtained f om repositi n under fluoro scopic control with the elbo flexed at an acute angle and fi at on by a dors I plaster spi nt In oll fractures vie extens a applied to the olecranon was successful in spite of the formation of callus As almost complete funct, nal restorat on is to be expected fr m conser ative treatment operation should seldom be u dertaken The adaptation e pacity of the bone in childhood is very great but it is important to begin active and cautious pass ve m ements as a ly as possible. Ma sage should be avoided in the first fe v eeks because of the danger of my sitis oss heans. The dre ded decubitus varus may be pre ented by place g the forearm in semi p onat n

In isolat d fractu e f the lateral condyle the epi physeal nucleus f the capitulum humeri is usually invol ed the radius e trudes the loose fragment Therefore operative and cubitus valgus results reposit on th suture or extirnati n of the fragment

is ad isable

In fracture of the medial condyle no disturbance of the function of the joint is to be expected. There fore operation is not necessary

Fractu e of the head of the radius is rare If the head is remo ed ynostos s bet veen the radius a d the ulna is likely to occur hence cautious operative reposition or conservative treatment is to be

recommended

Lesions of the ne ves were not found in any of the cases reviewed

In conclusion the author says that the prospects of healing are favorable in fractures of the elbow in children because the growing bone possesses great anatomical and functional adaptability Holy (2)

Peabody C W Disruption of the Pelvis with Luxati n of the Innominate Bone 1 & S ; 1930 x Pt 170

This article is a report of eight cases of complete disruption of the pelvis with separation and dis placement of one side from the other. In five cases tl ere s as separation with anterior displacement of the pubic symphysis and separation and displace ment of one or both sacro iliac synchondr ses and in the three others there vere vertical factures close to the pubic symphysis with rupture of the sacro iliac joint and upward displacement of the whole innominate bone. To date sixty five cases of disruption of the pelvis have been reported in the literature

The fin lings on which the diagnos s is b sed are complete helplessness severe shock great pain referred to the pelvis on movement tenderness on palpation of the synchondroses and gross hyper mobility of the pelvis to manipulation Roentgeno grams are necessary only to confirm the diagnosis

Visceral complications are rare but fractures such as fracture of the transverse process of the fith lumbar vertel ra are not uncommon Disloca tion of the innominate bone has generally been attributed to a crushi ginjury but in a conside able number of cases has been caused by a fall

anky losis of the sacro il ac syncl and oses de elops with or vithout complete reducts n of the displace ment Although reco ery frequently occurs without reduction reduction seems necessary for complete freedom from disability and the prevention of scoliosis

The treatment used by I cabody is as follows As soon as the general condition warrants the us of an anasthetic the patient is placed on a fluoro scopic table ith the foot on the displaced side tied to the head of the table After the induct on of anasthesia the table is tilted nearly to the vertical position the veight of the body being thereby suspended from the fastened leg. The pelvis is then very carefully manuful ted bety cen the hands until replacement can be seen with the fluoro cope and can be felt A previously prepared veb belt is then placed around the pel is and buckled tight the table is returned to the horizontal position the traction is released and the po it on again checked with the fluoroscope When rotary d splacement is present the limb on the anterior s de is held do: n while the opposite I mi extended at the knee is strongly flexed at the fip to lever this side of the pelvis for ard The patient is then replaced in the Bradford frame and the foot re attached to the end of the frame with the head inchne I do n ard To guard against reluxation in bed tract on of 20 lb is maintained on the leg of the affected ide overhe d pelvic sling is applied for comfort

Six of eight patients treated by Peabody recovered without any residual disability and with correction of all upward displacement of one side of the pelvis In two the relations of the symphysis were not entirely normal and anatomical reposition at the points of fracture was not obtained. One patient died before treatment was begun

Sciatic pain was not a marked symptom except in cases with a fracture of the lateral process of the fifth lumbar vertebra RUDOLPH S REICH M D

Cutler C W Jr Fractures at the Condyles of the

# Femur 1nn Surg 1931 von 551

The author reports thirty eight fractures at the condyles of the femur Eighteen were Iractures above the condyles seven fractures between the condules three fractures of the internal condule five fractures of the external condule and five separations of the condylar epiphysis

We are reminded of the seriousness of such in juries not only as regards their menace to the future usefulness of the limb but also to the patient s life Proper reduction and maintenance of the fragments in position after reduction are difficult. No one method of treatment is applicable to all cases Because of the gravity of infection in injuries of this type every effort should be made to obtain reduction without operation H EARLE CONNELL M D

### kennedy R H Fracture of the Shaft of Both Bones of the Leg inn S g 1031 vc1 563

The author reviews 107 cases of fracture of both bones of the leg not involving the joint In 13 cases the fracture was of the spiral type in 9 it occurred in the upper third of the leg in 35 in the middle third and in 50 in the lower third About two thirds of the patients were between the ages of sixteen and fifty years. Sixty two fractures were apparently caused by direct violence and 45 by indirect violence Thirty nine of the patients were injured in automobile accidents Eighty of the frac tures were simple and 27 were compound Sixty were comminuted

The treatment consisted of the use of a plaster of Paris splint in 70 cases traction by a Steinmann pin through the os calcis in 30 cases traction by ice tongs in 4 cases traction by adhesive plaster in 2 cases and open operation with the application of a Lane plate in 1 case The position of the fragments was unsatisfactory in 11 cases treated with plaster and in 2 cases treated with ice tongs

The average time the Steinmann pin or ice tongs were left in place was forty eight days. All pin and tong wounds healed promptly but in 2 cases late abscesses developed In 40 cases callus was first noted in the roentgenograms after forty days average period before solid union was obtained was eighty four days in cases of spiral fracture ninety five days in case of fracture of the upper third of the leg ninety two days in case of fracture of the middle third of the leg and fifty seven days in cases of fracture of the lower third of the leg Of the 27

cases of compound fracture gas bacillus infection occurred in <

Three patients died Amputation became neces sary in 3 cases Non union is known to have resulted in 2 cases and probably resulted in 1 case union is known to have resulted in \$2 cases. In 16 cases the patient was transferred to another institution too early for the end result to be known but the position of the fragments was such as to warrant the expectancy of solid union

The time the patients receiving complete treat ment remained in the hospital averaged sixty six

days

The author emphasizes the importance of thor ough treatment in fractures No single method is applicable to all types The traction suspension method is no easier and requires no less training than the open reduction but is less dangerous when undertaken by a surgeon who sees a major fracture only occasionally

Theoretically traction on the lower end of the tibia is preferable to traction through the ankle joint However the author has given up the applica tion of ice tongs in the malleoli in favor of the introduction of a Steinmann pin through the os calcis He has not seen any loss of function or in stability of the ankle joint which could be attributed to the prolonged pull through the ligaments of the H FARLE CONWELL M D

## Lorenzetti C The Closed Method of Freatment of Fractures of the Ankle Joint Arcl St g 1931

Although Lambotte Lane and others advocate open reduction for fractures involving the ankle joint when there is much displacement the author believes that most of these fractures can be reduced with a good result by the closed method

In the method used in the surgical clinic at the University of Milan from which this article comes the lower extremity is covered with a layer of absorbent cotton and a wooden splint (from go to 100 cm long 6 cm wide and 1 cm thick) covered with absorbent cotton is placed on the inner side of the extremity The splint extends from the distal two thirds of the thigh di talward to 10 cm beyond the plantar surface of the foot A large pad of cotton is then placed between the inner surface of the lower two thirds of the leg and the splint The thickness of the pad is proportionate to the degree of the varus position desired. The upper part of the splint is fixed by means of bandages which below include the cotton pad Considerable space is left between the foot and the splint. This is secured by the cotton pad After manual correction of the gross displacement the foot is forced by means of band ages tighter and tighter against and over the inferior third of the splint so that it is in a marked varus position In this way the lateral displacement is corrected

It may not be possible and it is usually not de strable to obtain complete reduction at once The foot can be pulled further into an over corrected varus position the next day by rebandaging. Thus gradually the fragments may be brought back into normal po ition When reduction is complete and the permanent dressi g is applied the foot should be at a right angle (or as nearly at a right angle as po sible) with the leg viewe I laterally

Posterior d slocation of the foot must be reduced before the foot is place li the extreme varus posi tion except hen there i a vide separation of the tibia and fibula in which case the astragalus will pass more easily into polition under the tibia if the

varu is e aggerated temporarily

In the treatment described by the author the temporary a goden splint is left on for from cight to ty enty days depending upon the amount of swelling and the time required for reduction. A plaster cast is then applied ith the use of very little padding

Recurrent displacements after good reduction the most frequent of which is redi placement of the posterior marginal fragment of the tibia are attributed by Lorenzetti to application of the east before the ædema has subsided or the use of e ees

sive padding under the cast

In the treatment described the knee is usually left free a d early motion is encouraged. After from thirty to sixty days depending upon the severity of the fracture the east is removed and physical therapy is started. Roentgenograms are taken just after the application of the east to determine the position and just after the removal of the cast to determine the amount of callus

In no e f 435 consecutive fractures of this type coming und r the author's observation was open red et on requi ed W LLI M VETHUR CLAR M D

The Diagnosis Pathol gy and T eat Boehter I ment of Fractur of the Os Calcis J B J 1S 2 93 x 75

The diagnosis of fractures of the os cale s is aided by observation of the tuber joint angle. In a lateral roentgenogram a bne along the proximal contour of the tuberosity normally makes an angle of from 30 to 35 degrees with a secon I line uniting the highest point of the anterior process with the highest point of the posterior articular surface. In fractures of the os calcis this tuber joint angle i diminished or even reve sed The treatment of such fractures mu t include restoration of this angle as well as correction of the broadening and shortening of the bone

Boehler vaits for from six to ten days for the swelling to subside before he attempts reduction Under spinal anasthesia a compression bandage is used to diminish the swelling further Impaction is broken up by molding the foot over a wedge and manipulating it laterally. Traction hails are dn en through the proximal posterior corner of the tuber os ty of the os caleis and through the tib a four fingerbreadths above the ankle joint. Tract on ind countertraction are applied by means of freely turning stirrups and a scre extension device A ial kinking shortening and part of the broadeni re seduced by traction in the long avi and then posteriorly in the long axis of the culcaneus. The remainder of the broadening is reduced by tempor ty lateral compress on with a special kind of vise When the roentgenograms show good over correct tion of the tuber joint angle unpadde I plaster in corporating the nails is applied ith the f refoot in pronation and plantar flex on

WALTER P BLOUNT M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

### BLOOD VESSELS

Saito M Kamikawa K and Yanigizawa H. A New Method of Roentgenography of Arteries and Veins in the Living (Nouvelle methode de radio raph e des arteres et des eines sur le vivant) Pesse pd. Par 1930 vvv n. 1725

It has been found that the Moniz technique of sodium hromide injection for arteriography is some times followed by homolateral pilepsy or respiratory paralysis Trials with sodium bromide and other solutions mentioned in the literature having been unsatisfactory the authors were led to a study of

lipiodol emulsions

The lipiodol emulsions tried are given the name ombre Satisfactory results were obtained with Ombre P which is composed of lipiodol sodium acid protalbinate legithin and glucose. To 25 gm of lipiodol and 0.75 gm of sodium acid protalhinate mixed in a mortar 10 gm of le 1thin and a sufficient amount of 5 per cent glucose to make 100 c cm of emulsion are added. The protalbinate keeps the oil droplets at a diameter of 10 micra which is less than that of the droplets in other emulsions has a specific gravity near that of blood and a viscosity equal to that of blood It is yellowish white It causes no hamolysis and no coagulation Quan tities as large as 5 ccm per Lilogram of hody weight were injected into a cerebral artery of a dog without causing an irritative reaction thromhosis or embolism

For satisfactory N ray study a large quantity of ombre must be injected through a large needle. The technique for cerebral roentgenography in the case of an arternosclerotic patient includes the induction of local anesthesia the application of a clamp on the common and external carotid arteries (on the latter a little above the superior thyroid artery) and N ray exposure during an injection of Ombre P into the superior thyroid artery. The thyroid artery may become thrombosed but not the carotid

In the study of the vessels of the extremutes not the main vessel but a branch is injected for example in the arm the ulnar collateral artery and in the leg the external pudendal anastomotics amagna or the middle or lateral superior generulate artery. In the leg the general circulation is stopped before the injection by clamping the femoral artery just above the site of entry of the branch to the injected veins are injected subcutaneously after the application of a rubber constrictor above and below the field to be exposed. The dossige depends somewhat upon the size of the vessels. From 7 to 10 cm are used for the cerebrum and from 10 to 20 cm for the arm or leg. The needle employed is from 9.5 to 1 cm in diameter. The second injection for a stereo

gram is made through a slightly smaller needle but it is possible to make a stereogram with a single in jection

More than 100 patients of both seves between the ages of two and sixty three years were watched for secondary effects. An abnormal sensation mry be felt along the injected vessels but there is no pain A pre existing gangrene is not aga, favated.

CURTIS NELSON M D

Warnick W T Valvular Defect in Relation to Varicosis Lan et 930 cents 1278

In support of the theory that varicose veins may be caused by congenital valvular defects. Warwick cites a group of experiments which he carried out on subjects under the age of varicosis and on young

adults without obvious varicosis

Drainage of the veins of the lower limb occurs mainly from the deep veins and the internal saphe nous Valve are so situated as to prevent back pressure into the superficial system. In contrast to the venous drainage of the leg that of the arm occurs superficially through a single trunk. The perforating veins connect the deep with the superficial veins and the different superficial veins. Part of the saphenous system empties through the perforating veins as well as through the main termination.

The flow from the deep to the superficial veins takes place in comparatively few cases. In the majority of the subjects studied who were considered normal valves were so arranged as to insure absolute efficiency of the venous return from the lower limb. Of twentveight young subjects twenty five showed competence of the valves. In the remaining three incompetence of the valves in definite situations gave ruse to definite types of varicosities.

On the bass of the location of the valvular moom petence the author distinguishes the following types of vancosities (1) the congenitally vancose internal sphenous type in which there is leakage from the deep system to the internal sphenous v.u. alone () the congenitally vancose external saphenous or calf muscle type in which the leakage occurs only in the muscular branches of the calf and (3) the normal type in which there is no leakage.

According to Fabricia valves are normally situated in the superficial system just below the entrance of a tributary. Kosinski has shown that the superficial vern is valved below its junction with the superficial vern is valve below its junction with the fiber of the deep system the femoral valve near Poupart's ligament is important. The valve helow the entrance of the deep femoral ven is said to be the most constant. The author has found that normally competent terminal valves guard the entrance of all of the superficial vens into the deep system. The external saphenous

valve is said to a thistand more pressure than the internal saphenous. With regard to advoke deficiency in the deep system the author says that absence of the femoral valve a a bound in only one of six cases and in that instance a su unifateral. We sence of the femoral valve; a disability only he the terminal suphenous valve is incompetent. The author believes that 70 per cent of all young subjects are of the congenitally non various two

From the results of his experiments Warwick con cludes that the hereditary tendency toward varicosis is due to valvular defects in the perforating system and occasionally in the posterior tibial vein. There is no evidence of veakness of the walls or dilatation of the superficial veins. The effect upon the super ficial venous system of congental valutar incom petenc is usually in t apparent until adolescence when occupation plays a large part in veakening the al es Exciting factors in the causation of vari cosities a e a lack of muscle tone standing for long pe iods tight garters pregnancy which tends to produce veakening of the vein all factors causing venous obstruction such as tumor any cause of abdominal straining and heart lesions with venous b ck pressu e CLARE C \ B TES AN M D

Streke P and Orb F Experimental Investigation of Arterial Thrombo is Arterial G n g ene and the Comparative Value of A terial Ligation and Arteri comp (Re h per m t to the mbound of the comparative Value of A terial in g g b a ds r l l u mp é d l g tures ten lles et de né eet m ) J d h 930 v x 697

In recent yea 5 Let che has attempted to demon strate the impo tant role which is played by the in nervati n of the arter al walf in the causation of sequels. I oblite atton of the arteries such a cyanosis oldness muscular p ralys's trophic ulcerations and a terial gangerie. He belle es that in all of these phenomena, the disturbance of the par etal inne vat on in producing vasoconstricting reflexes is as impo tant as if not more important than the schemic phenomena. His theory has been proved correct by the fire vitrond may results of extensive rie tectomy on thrombotic arteries. Arter actorn p oduces a paradox in periphe ald latation

The treatment of the sequelic fateral obliteration by a ter tomy has not been generally adopted as its still not generally call zed that an oblite atted artery i no longer a channel for blood but a group of sympathetic nerves in a state of chonner it non Therest lie ists the fer of aggra ating the secharmal by resecting a prition of an a terry through which no blood passes and from which vasoconstricting refleres go out to the per phere

In this article the auth or report experiments which they or tried ut on dogs at the instigation of Le iche and under his direction. In the first series they at tempted to determine whether it is possible to cause arter its and gangriene of arterial or ig a by injecting vasconstrict no or thrombosing substances into the lumina of arteries or by applying ligatures in su ha a as as to exclude most of the principal vessels of an extremity

In a secon I series they compared the effect of Iga ton and arterial resection. In the resection they ecluded the greater portion of the principal vessels I amember to determine its effect. The results showed that in the dog arteriectomy is much better supported than arterial eviction in by ligatures. As was found by Leriche arterial resection caused total suppression of the periatrical sympathetic, which is better than the partial suppression produced by nerrarreiral sympathetic when the periatrical sympathetic in the pe

In a third g oup of experiments the authors t empled to determine a hether the vasod lain ga effects of sami athectomy which were produced by arterial resection may be increased by section of the lumbar chain of ay impathetics

It is as found impossible to induce in animal a gangrene comparable to that occurring n man. By chemical substances such as ad enalin quinne urethane and sodium salicylate it was very difficult to obtain extensive obliteration of the large arteries alone.

Successive occlusion of the principal arter es of a limb with suppression of all collaterals by means of ligatures caused no trophic disturbances. Anim is under observation for several months after the pocedure scenned to remain entirely normal

Complete successive resection of the principal arteries of a limb up to the termination of the ao ta va sell tolerated if it vas done in stages. In fact was better tolerated at first than exclusion produced by d uble ligitatures on homologous vascul regiments. Occlusion of the principal arteries v sinct sufficient to cause gangrene a very abundant collateral circulation always developed.

Collateral circulation always occupied.

When the ordat a scompressed at its bifurcation so that the lines h pogastries and steral a recording the dogs almost have time bracked particulation sufficient or the limbs. The commons dimention sufficient or the limbs The commons dimention sufficient or the limbs. The commons dimention sufficient or the limbs are common dimention to the limbs and the common dimention of the limbs and the common dimention of the limbs and the properties of the present of the perial terms of the limbs and the properties of the limbs and the properties of th

IAC BE LLI MD

LYMPH GLANDS AND LYMPHATIC VESSELS

Lespe ance E S Studi in Hodgkin Di as

1 S z 101 c 62

It has long been held that tuberculos s is an etio logical factor in Hodgkin s disease. Ho e et gunea pig inoculation from les ons of the disea gunea pig inoculation from les ons of the disea common experimental animal the human and bovine types of tuberculos s develop read by b t lessons it has a disease the same types of tuberculos selections are long of layed.

The author conceived the idea that Hodgkin s disease might represent a peculiar type of tuber culosis in which the avian strain of tubercle bacillus is the chief etiological factor. Accordingly she carried out experiments in which emulsified material from a Hodgkin s node was given intravenously to chickens All of the chickens developed either typical or atypical tuberculosis and in many of the tissue smears acid fast organisms were demonstrated When guinea pigs were inoculated with tissue from one of the affected chickens material obtained from the guinea pigs yielded a growth of bacteria with the staining and cultural characteristics of the avian tubercle bacillus. In subsequent tests in which emulsified material from Hodgkin's lesions was inoculated into chickens and guinea pigs the con stancy with which tuberculosis developed in these animals strongly supported the theory of the etio logical importance of the avian tubercle bacillus in certain clinical forms of Hodgkin s disease

VERNE G BURDEN M D

Warthin A S The Genetic Neoplastic Relation ships of Hodgkin's Disease Aleukæmic and Leukæmic Lymphoblastoma and Mycosis Fungoides 1nn Sur 1931 xcii 153

The author believes that Hodgkin's disease is a neoplasm related genetically to the lymphoblasto mata of which both the aleukemic and the leukemic forms are identical pathologically and that my coass fungoides is a neoplasm belonging to the same gen ene group. There are transition forms between all of the types. These conditions differ chiefly in the degree of differentiation of the cell types and the point of origin. They arise from pervisacular reticulo endothelium or from the maternal lymphoblastom of the lymphod tissues of the body. The former take on the type of Hodgkin's disease and the latter the character of I lymphoblastom.

The more undifferentiated forms such as Hodg kin's disease occur in young persons whereas the typical aleukæmic and leukæmic neoplasms are more frequent in older persons. All run a similar clinical course characterized by fever remissions and recurrences of the tumors progressive tumor cachein anemia emaciation and prostration. No case has been cured. Surgical removal is followed by recurrence of the condition in the regenerated glands. The disease has a steady malignant progress to a fatal termination. The only treatment judicious and systematic roentgen irradiation is merely palliative.

Auche J The Neoformation of Lymphatic Glands
(De la neoformation des gan hons lymphatiques)
Ret de chir 1930 vlix 350

In one and the same group of lymphatic glands may be found typical glands rudimentary glands and glands that bave undergone involution. The rudimentary glands have undergone involution may recover the appear ance of typical adult glands and return to their former state again when the cause of their transitory evolution disappears. This fact is not generally recognized by persons doing experimental work. Meyer in 1906 and Vecchi in 1910 removed not only the typical glands but also the cellular adipose tissue of the region which contained rudimentary glands and glands that had undergone involution

The author states that in experiments on guinea pigs he definitely demonstrated the neoformation of lymph glands after the anatomical removal of glands formed with the development of the animal. He concludes that the removal was the cause of the glandular neoformation. The adipose and loose connective tissue were not only the site but also the substratum of the neoformation behaving thus like the mesenchymal cells from which the glands are formed in the embryo. The newly formed glands fulfill the functions of glands in general

In man also new glands are formed from the adopse and loose connective tissue following the anatomical or functional suppression of the old glands

The article is supplemented by a bibliography of about fifty references
PACE

## SURGICAL TECHNIOUE

### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

De M tel T Guillaume J nd Lassery M The Use f Bird's Mu ele as a li remo tatic Agent (L'empl d mu l d omme g t hêm st (q) P td P 03 v 1 7 8

The problem of hem struss is very important in neurosurger. Hamorrhage is dangerous and both ersome a d the cause of post perative compilcatin is Hem thage into certain reg ons such as the medulla or the third vent sele - especially dange ous. Whent occus into the subarschond spaces it may cause a thermal reaction from absorption or the blood corpuscles may obstruct the flo of cere bro pinal flu d by block ng the aqueduct of \$5\times or the f ram a f Luschka na Nagande

After ast do of all f the meth d employed today, for homosta as the a thors advocate the use of bird's muscle. O dinari mechanical method such as ligat on and the use of a lare sitisfactory for superficial types of harmorrhage but for deep harmorrhage and to linus blied ing they are n t suitable for ley has suggested the use of a fagment of human mu cle but the authors peter heterogenous muscle obt in dep prefe ably from a p geon

Attention s c lled to the fact that two distinct mech nisms a e n of ed in the process of clotting first the e is the development of the ferment hich results from the union of to sub stances c nt med in the blood-thrombogen and thrombokin se The th mbin then acts on the gen and ch nges it t fibrin In mammals the plasm contains calcium salts thombogen and fibringen and the platelets contain the thrombo kinase In birds t the muscles which c tain the chiefing edients to the formation of thromb n The thrombogen is in the flads of the muscle and the thrombok nase in the muscle sub tance. The efore in bi ds them sele tiss e is the agent for coagul tion The autho's u the muscle of the pigeon because this b dis read ly obta ned and is arely the car ier of infections The feathers are plucked from the ventral egion and a fe st ips of mu cle are remo ed ith prec tions f rasepsis. The st ps are appled directly to the bleeding su face

The auth is report their very sait factory eight enemes with the use of such miscles it pis in the control of bemo bage arising during neurosurgical operations. They we fed its action eight enement By in six rabb is in hich they made deep incisions in a lobe of the her Ord narily such into ions ould have caused death but the int oduction of a stip of muscle into the ound six ed the hives of all of the animals. The usual hist logical reaction about a sterile g aft was found in the vicinity of the muscle.

tissue Two months after its insertion the muscle graft as completely abso bed and replaced by a f brous cicatri

The method described may be employed not only in neurosurgers but all on general surgery. It is of value particularly after trauma to the liver spleen and kudney, and for hæmostass in bone and blood vessel surgery in which ordinary mechan cal method are found unsuitable. The authors hope that for mo e general use a stable serum or it sue e tract may be made to the control of the

### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Alt na G Baeterloph ge (Il b tt fago) P!

Differelle found in faces a litrable and ultra micro cope by the principle hich when added to cultures of bacteria destro is them or inhibits their growth. Cultures of bacteria to which the bacteriophage has been added show hiles of vary agistes in which there is no grot. In Vaterial taken from these defects in the culture reproduces the bacter ophage through various passages. Presumably the destructive action of bacteriophage and the defensive force of bacteria usually bilance each other or one or the other would be destroyed. By tempolage action, on Imp bacter is and have a more intense action on young cultures than on old ones.

Britesiophiges abov apec fiety not only for cettum species of bacteria but al o for certinis trains of those species. A bacteriophage the tikilis one straiof colon bacilli may have no effect on another. This is the difficulty, that has presented itself in the use of the bacteriophage in therapeuties. The typhod brieflias for example shows most strains therefor the bacteriophage used in the phod feeter void have to be specific for each special strain. Diffice at strains of brite iophage with different deg ees of specificity and virulence may be found in the same in terial. By using methods similar to those employed in briteriology special strains of bacte tophage may be soil ted.

While the be t temperature for most bactera is around zy degrees that for the bacternophage 1 lo er Therefore at 37 degrees or above bacte 1 are more resistant to the act on of bacternophages. The best revetion for bacternophages is alkaline and the optimum deg ee of alkalinity is higher than that for bactern Bruternophages a e cry videspread in nature. Their chief hab tat is the intestines of animals. The d ease in which their la e been used most successfully is bac llary dysentery. Mentally active fitted that the successfully is bac llary dysentery when active fittrates ha e been gie no by mouth they he

given excellent results in epidemics of this disease in various countries and have not only cured the persons to whom they were given but have attenuated the virulence of the epidemic

The author suggests that hacteriological labora tories prepare different strains of bacteriophages for distribution to hospitals thus Leeping this method of treatment out of commerce

AUDREY GOSS MORGAN M D

Hansen J The Primary Treatment of Wounds
(Die primae e Wundbehandlung) Deutsel Ztsch
f Cl ir 1930 ccxxxii 17

In the treatment of the many fresh injuries seen daily at Bergmannsheil the basic principles estab lished by Friedrich are followed. In the cases of miners who are injured during the day the incuba tion period of six hours is extended hecause of the well known small hacterial content of the soil All wounds in the soft parts after being painted with dijozol are excised usually under local anæsthesia and carefully sutured in several layers without a drain or packing. If the wounds are very dirty or if they are open joint injuries they are irrigated with phenol camphor and tetanus actitorin is admin istered In clean injuries of the soft parts splints are not used A dry dressing is applied. In wounds of the head and neck subcutaneous ligation of vessels The hony roof of the skull is carefully is not done The hony roof of the skull is carefully examined Fendons are united with double silk sutures In the lower extremity adequate relaxing incisions are made and the defects covered with Thiersch grafts If the circulation is poor (varicose veins) the leg is handaged and elevated. In injuries of the fingers and toes primary amputation is often done for social indications if a good stump covering can he obtained

One thousand cases are reviewed Complete non secreting cohesion of the wound edges within seven days is considered primary healing. This is achieved in almost 100 per cent of the head injuries of other superficial parts of the body also have a very high percentage of primary healing. Naturally the healing depends upon the time that the treatment is instituted. A number of cases are cited in which treatment was delayed and the wounds took a correspondingly longer time to heal.

C E JANCKE (Z)

Feisenreich F The Results of Essentially Opera tive Treatment of Wounds (Ueber E gebnisse primae -operati er Wundbehandlung) II en klin Wehtsel 1930 i 961

The author reports the results of the technique of wound treatment employed in the Hochenerg Clinic—mechanical di infection of the wound area? His material included about 2 000 vounds occurring in various parts of the body which were treated in the accident station in the period from 1927 to 1929. Seventy per cent of the wounds were lacerations and most of the latter were contused lacerations.

As a rule all wounds less than twenty four hours old are treated operatively whatever the degree of contamination. Primary bealing is obtained in from 96 to 98 7 per cent except in amputations in which its incidence is 80 per cent. The successful results are attributed to the carefully developed technique which includes purely mechanical disinfecting procedures. The results are exactly as good as those obtained with combined mechanical and chemical treatment.

The operative field is carefully shaved cleansed with benzine and alcohol and painted with 5 per cent tincture of iodine Local or regional anæsthesia is then induced very careful clean ing of the opera tive field is done again with henzine and alcohol a second application of iodine is made and in badly soiled wounds mechanical cleansing of the margins with seissors and scalpel is carried out. Then with fresh instruments wound excision is done with auxiliary incisions if necessary and with the greatest possible preservation of the skin Even if some of the skin is cast off as a crust the underlying tissue has had time to regenerate Primary skin plastics are done only when joints or teodons must be protected By sliding flaps or hy lateral mobilization of the skin edges it is usually possible to suture without tension. Often a rectangular tension suture placed at a distance from the wound aids in approximating the skin flaps for suture Fat and muscle which are particularly susceptible to infection are removed back to freshly bleeding zones Tissues which cannot be radically removed (tendons nerves joint cap sules) are cleansed without injury by the injection of salt solution Buried ligatures are avoided as they may readily lead to insidious infection like wise sutures of joint capsule and extensor tendons Suturing of fascia and muscle is also avoided so far as possible. In the latter structures, the slighte t inflammation caused by a foreign hody leads to adhesions between the skin and the scar Bursæ are excised as they lead to fistula formation and in All forms of drainage are avoided with the exception of very thin drains used for from twelve to sixteen hours. A well fitting pressure bandage is preferred Strips and wicks delay wound healing for at least two or three weeks

As primary healing requires absolute rest of the injured region ammobilization of all parts involved by the wound is essential In certain cases of wounds of the extremities this is obtained by means of an unpadded plaster bandage with or without win dows which is applied directly to the skin the parts nearest the wound heing protected by sterile Bill roth cambric This bandage produces pre sure and furnishes a point of attachment for suspending the injured limb Also of value is open treatment in which the sutured wound is painted with indine collodion and exposed to the air protected only hy a gauze cover In cases of wounds of the hand and fingers free extension or suspension of the part by means of a clamp nail or wire is sometimes em ployed to eliminate painful changing of dressings

In the mouth the rich blood supply insures good healing of wounds in spite of the great danger of infection but sponges are placed between the gums and lips and changed every two hours to keep the wound dry For the suturing of mouth a ounds the finest silk is employed because the svelling of catgut sutures vill dilate the wound and may thereby lead to infection. In head injuries a pressure bandage is applied for three days and the wound then treated openly in the same vay as a vound of the skin of the face Bites of animals are also treated in this manner of twenty one cases suppuration occurred in only 5 per cent

The purely mechanical treatment of younds with out the use of di infecting agents has so completely met all e pectations that nothing better could be expected of a combined method. However it should be used only by the e perienced surgeon not the general practit oner Severe injuries requiring this treatment should unconditionally be referred to a hospital or accident station as other, ise the method may become d scredited STR ISSLER (Z)

#### **ANÆSTHESIA**

Biancalana L Clinical and Experimental Study of Certain D turbances Associated with Spinal Anresthesia (Ruce n. Inche. pe m. t.l. su mpg olarch estes ) d t b he t) ild h

About twenty minutes after the puncture for spinal anæstbesia is made there may be nausea comiting and respiratory and circulatory disturbances Respi atory syncope is rare By some it is attr buted to an effect exerted by the anæsthetic on the medulla The author has never seen seri us respirato y disturbances in his cases The fall in the blood pressu e 15 sometimes great enough to eause marked distu bances in the circul tion and even collapse With egard to the anam a of the medulta y h ch is respons ble for these disturbances the e are t vo theoris Aec rding to one this anam a is brought bout by the direct action of the anæsthet c on the higher centers. According to the other at as due to the 1 w pressu e produced by vasodilatatio f om paralys s of the vessels in the anasthetized Those who accept the first theory p int out that there is no g eat fall of the blood pressu e ben the act n of the anæsthet c is limited to the lumbar tract wher as v hen this action extends to the tho racic roots there s pt to be marked hypoten ion Those who accept the second theory este the fa or able effects of the Tre delenbu g position in support of thei belief

The author pe formed experiments in dogs in in effort to settle this quest on but his results ve e not absolutely c nelus ve lle believes that tas poss ble for the anæsthetic to rise to the meduita but that t hile the amounts might be large enough to disturb the higher centers they would not be sufficient to paralyze them If the injection is made into the thoracic spaces the possibility of up vard d flusion is greater The great individual differences in sensi tiveness to anaesthetics are shown by the disturb ances that sometimes occur after ordinary local anæsthesia when only a very minute amount of the anasthetic eould poss bly reach the medulla

The good effects of the Trendelenburg postion do not prove the theory that the anamia is second ary for this position does not greatly increase the amount of anasthetic that reaches the medulla and it puts the higher centers in a condition of g eate resistance to the anæsthetic Apparently ho ever the anæmia of the medulla is due in most cases to the lovered blood pressure. The low pressure shows the characteristics of low pressure from vessel collapse rather than that of heart collapse and is not affected by cardiae stimulants. There is generally no great change in the rby thm of the heart a d the pulse becomes small because less force is required to overcome the resistance of the circulation. The Trendelenbu g position is helpful as in all cases of anæmia of the central nervous system because it increases the blood supply of the medulla

The greater the unward diffusion of the anasthetic the greater the chance of a low blood pressure and disturbances of the medulla Therefore all man pu lations which tend to cause up ard d flusion of the anæsthetic should be avoided There should be no preliminary exacu tion of spinal fluid or not mo e than 2 or 3 c cm should be removed at the most The anæsthetic should not be mixed a ith more tha a fe cubic centimeters f spin I fluid and the in jection should be made slowly. The patient may be put in the Trendelenburg position a few minutes after the puncture but the change should be brught about gradually so as not to cause rap d d splace

ment of the anasthetic

In the treatment of disturbances of the medulla rapid and deep inspirations and the inhalation of oxygen nitrous oxide and a few drops of ether are of value The prel minary inject on of adreno ephedri will help to prevent lov blood pressure

AUD EL GOS MO GAY M D

Mel ner E Tie Inducti n of Anæsthesia with tin and Pernocton (Ubr Eltagd ksamt 1 t ud Peokto) Dih 93

In recent times psych c shock has been recognized as an unfavorable effect of anæsthesia and attempts are being made to clim nate or decrease thi danger by ne v anasthetic procedures or the introduction of The author has the so called basic anæsthesia conducted experiments with avertin and pernocton Many have come to the conclusion from their ex periences with rectal avertin anæsthesia that avertin hould be used only s a basic anæsthetic numerous cases suff cient analgesia for the intended operation is obta ned merely by such a bas c anæs thesia ithout the supplementary use of ether or ethyl chloride

The contra 1 dicat ons to the use of avertin are parenchymatous di eases of the kidneys and all affections that lead to diseases of the Lidneys such as sepsis. For this reason a careful test of renal function is necessary in every case before anaesthesia is induced. Hepatic diseases also constitute a contra indication to the administration of avertin because the avertin is excreted from the body through the bladder combined with glycuronic acid and its de toxication depends chiefly on the liver. Avertin should be avoided also in all interventions that cause an acute diminution of the respiratory volume or the pulmonary surface such as phrenic exercises and extensive thoracoplastics.

In the cases reviewed by the author the amount of the anæsthetic used as an adjunct was usually less than that which would probably have been neces sary without the use of avertin but striking dif ferences were noted in only a relatively few instances Melzner did not observe any asphyvia but a con siderable decrease in the blood pressure occurred especially when great insults such as traction on the viscera or very extensive incisions in the soft parts were inflicted on the anæsthetized patient during the operation. As such decreases in the blood pressure do not occur when ether is administered alone it must be assumed that avertin diminishes the ability of the organism to withstand the operation con siderably more than ether The decrease in blood pressure is always relieved by the injection of ephedrin According to the statistics of Nordmann the mortality of avertin anæsthesia is about the same as that of chloroform anæsthesia and about twice as high as that of pure ether anæsthesia

According to the results of the author's investigation the problem of ether anaesthesia as based upon (1) the insufficient and particularly uncalculable soporific effect of avertin (2) the slight difference between the minimal dosage inducing sleep and the dosage causing noteworthy disturbances and (3) the fact that up to the present time we know of nothing that will nullfy the effect of avertin after it has entered the body

The soporific effect of avertin depends upon re soporific tent concentration from the very beginning sleep ensues under all circumstances. With rectal administration the concentration in the blood depends upon resorption through the intestinal mucous membrane.

Attempts to increase the difference between the minimal soporific dose and the dosage at which quite considerable disturbances may become evident showed that the withdrawal of sodium and potassium salts the administration of potassium salts and finally the entionization of the calcium blood con tent were successful. In patients who were prepared in this manner (these patients were given a salt poor diet and small amounts of carbonated water on the day before the operation and an intramuscular injection of 2 c cm of 20 per cent neutralized potassium phosphate immediately before the opera tion) the rapid onset of the sleep was striking Considerably less ether was necessary than in pure ether anæsthesia and in no case was there a considerable decrease in the blood pressure Altogether 41 Cases were treated in this way

With regard to the possibility of nullifying the effect of the avertin that has entered the body the author says that release of the intestinal injection and the administration of carbon dioxide would probably not be sufficient in serious disturbances

Melzner believes that in the induction of ames thesia by the intravenous injection of avertin as recommended by Airschner the psychic trauma is neteased by the complicated technique. On the other hand the uniform quiet sleep beginning within a few seconds is of advantage. There are no failures or accidents. However this intravenous sleep lasts only five minutes and the amount of ether necessary with increasing duration of the operation increases disproportionately when compared with the amount used in the rectal administration of avertin. In most cases the amount may equal that used in pure ether anæsthesia. The body seems to be unable to main tain a definite concentration of a ertin in the blood as it does in rectal anæsthesia.

On the other hand pernocton has the great advantage that it is used when only a slight soporific effect is desired Furthermore the technique is very simple From 4 to 6 c cm are injected very slowly through a 10 c cm syringe for from three to five minutes until the patient fails askeep suddenly and without excitation. With more rapid injection the effect is not so good. The supplementary amount of ether that is used is strikingly small. Therefore per noction is preferable to avertin as a basic anest better.

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Kirkl n B R and Morton S A Roentgen logical Clanges in Sa old and Related Lesi ns R d i g 93 93 38

The disease known as Boeck's sarcoid is character of primarily by the formation of nodules in the cutaneous and subcutaneous tissues. The skin over these reas has a telangiectat cappearance. The distribution of the le ions and the histological picture are distinctive.

Various theo ies ha e b en advanced vith regard to the etology of this di ease. By some the condition has been ascinhed to the bacillus of tuberculosis. In the opinion of othe s it is a separate I ease entity ac ording to a third group, it is due to several factors.

In certain cases the bacillos of tuberculosis has been i olated from the lesions in the skin and in many definite tuberculous les one have been I und in othe cases there is not element of tuberculos and even the tubercul in test is negative. The fact that general lymphadenoppity sometimes occurs suggests that the condition may be related to tymphoma. The favorable results reported in certain cases following te timent with the roentgen rays tend to ut stantiate this ser

As Boeck's sa coid with usee al involuement is seldom f tal path I gical descriptions of the visceral les ons a e-meage

While the que tions of etiology and the relation of the valuatives of sar old to one another are for the directology is to settle it is min ortant for the roestign 1 gst to knot that the condition is associated vib moe o less characteristic roestigen.

cha ges in the bones and lungs

Sarc d it ho game inv l ement i apparently a
disease f adult life since in thirty cases of sarco d
leasmos of the lun sor bone reported in the lterature
the aver ge ige is thirty six years and practically
all of the part at is e emore in it is entry years old
Men and men er equally affected. The
the ases often bas at is ly cut conext and later lap es
into a thirty six years and the property of the
the bones may return almost to no mal. When the
condition is not arrested con iderable pe manent
loss of bony it we results

The roentgenological changes re usually found in the phalanges of the han I but often are noted also in the phalanges of the foot. Changes in the lone end of the rad us and ulin about the elboy yount and even in the body of a vertebra ha e heen described. The disease of the horse seems to be evidenced first by thickening of the tabecular architecture in the end of one of the phalanges of a I figer Small punched out areas appear and later there is a peculiar combination of bone destruction and refair. Clear cystia creas varying from spaces the size of a pin point to ancient of the size of a pin point to ancient the size of a down rata are dense and ackerotic Thompson and the product of the size of a size of the size of a manufaction to manufact to normal if the process is at existed and had in, occurs considerable mutilation usually results. There is no general ted atrophy of bone I the affected hand and but little localized atroph of the discept had cased bone. Sequestration of the discased part does not occur and there is no accompanying periositis. Fix adjacent joints are not mod of the shift of the affected bone may show slight uniform calargement but the cortex is rarely broken.

Tuberculous dactylitis or spina ventosa is se n most f equently in the hands of children. Periostit's and atrophy of bone are marked. Sequestra and

d scharging siguies are common

Syphilitic disease of bone particularly of the congenital variety sometimes affects the phalanges the lesion is then found more often in the diaphysis than in the head of the bone. Perio titis a prese t and the corter is thickened.

Malignanev is ruled out by the multiplicity of the lons and the fact that the cortex is not broken Chond omatosis usually eaues much mo e en largement of the bone and is associated with defin te tumors

The reentgen ray findings in the lung in cases of sarcoid include a bilateral far by leine diffu e linear infiltration of the middle or the long extending from the bilim vell out to varid the periphery. The infiltration may be so dense as to ob cure the borders of the heart. Super imposed upon this area are many did cet opique as ranging from mil ary nodules to areas perhaps a ring mid ameter. The appress of the lungs are not affectively as the superior of the same as been elarged but in other is entirely and the sentence of the same and the superior of the same and the superior of the same and the same and the same and the same are the same and the same and the same and the same are same and the same are same and the same

The condition must be distinguished from other thronic conditions I the lungs I thas some of the characte sites of old fibrous tube rule. Post moconios a resembles it more closely but in the lattle cond tion the nodules are more definite and mo e numerous and there is not such a backgrou of ol hunar strations. Althou he has sare to desine and a emore diffuse than those of bronchectasis of the usual type the diffe ential diagnosis between the e two cond toons is often diff clothed.

Kirkin and Morton report six cases of Boeck's sarcoid with visceral involvement—two with changes in the bones and lungs two with changes in the bone and two with changes in the lungs.

Herendeen R E Results in the Roentgen Ray Therapy of Giant Cell Tumors inn Surg

This article is a review of cases reported by the author in 1924 which indicated that roentgen therapy will cure the majority of giant cell tumors of hone and in many instances is superior to the stand ard surgical methods of treatment. Herendeen's purpose is to compare his previous statements with the information available regarding these cases today.

In most of the cases studied the neoplasm was undoubtedly a henge gant cell tumor but in some of them subsequent findings seemed to indicate that it was a gant cell surroom or malignant grant cell tumor. The author discusses the differential diagnosis of these tumors briefly with particular reference to the cases under consideration. In Case 1 of the series in which the neoplasm was betieved to be a typical giant cell tumor and responded well to roentgen therapy other bone tumors subsequently developed in new sites. The latter also responded well to irradiation and were apparently metastases. The author believes that the primary neoplasm was

a gant cell sarcoma or malignant gant cell tumor In Case 2 at ypical gant cell tumor of the head of the finhula has remained cured after seven years In Case 3 a recurrence after operation in the distal end of the radius has remained cured after five years. In Case 4 an atypical involvement of the osciles has remained cured for six years. In Case 5 an inoperable tumor of the pelvic hone of doubtful nature responded well to roentgen therapy and has remained cured for the years. In Case 6 a gant cell tumor in the lower end of the femur has remained cured for six years. In Case 7 a less characteristic lesion in the same location also reacted favorably to roentgen ray treatment.

The technique used is discussed hinefly. The author emphasizes that there is no standard method of irradiating these tumors and that the amount of irradiation and the method of delivering it vary with the case. Frequently it is safest to determine the radiosensitivity of the neoplasm first by a test dose. Massive high voltage doses are seldom neces

The author believes that in the cases reviewed sufficient time has elapsed and the number and variety of the tumors was sufficiently large to war rant the conclusion that the optimistic statements made in his pre ious article were fully justified

ADOLPH HARTUNG M D

## MISCELLANEOUS

### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Leriche R Reseatches and Critical Reflections on Pain tie Mechanism of Its Production and the Pathways of Pain S nsibility (Reche che et éfi ns riq es u i do leu s e méca sm s d prod u n ris le oesd i sbiilé d' loure ) Priceméd P 931 v 1

The author presents a rather lengthy dissertation on the nature of physical pain the peripheral ana tomical structures and their changes associated vith pain the mechanism of the production of pain and conscious and unconscious sensibility. The discussion is chiefly a series of reflections doubts and questions from a philo ophical viewpoint on the question of pain Attention is called to the fact that pain does not exist in the normal individual nor in the plan of nature as an end in itself. It is difficult to consider it in the same category with such physic logical factors as tactile sensibility and thermal sensation. If pain is not a physiological sensation but the result of an accident it is impossible to have a special anatomical pathy ay for conducting the sen sations to the brain Pain is not an entity. In his tological examinat one of certain areas of the skin in t bich the pa nful areas had been mapped out pre 1 ously Foerster found no structure in the centr p etal system which might he a special receptive apparatus fo pain In d scussing the relation of tac tile sensation and tactile end organs to pa n Le iche calls attention to the fact that varying degrees of tactile sensat on may result in pain. After chor dotomy has a sensat on is lost but tactile sense is preserv d In time the pain sensations gradually return. No degeneration had been observed in any of the nerve tracts hich might indicate a special pathway for na n sensations. It is a curious parado that the points of pa n are more numerous than the tactile a eas which are more common in every day sensations. On the basis of the findings after chir dotomy and a tudy of the ner e structures in the periphery and in the spinal ganglia the author rejects the poss bility of dist not one bety een the sen sation of touch and that of pain

With regard to the mechanism of the production of pain. Le tohe remunds us that there are physical chemical and circulatory changes in the painful its uses. He discusses parado it call mechanisms of pain pointing out for example that the dentine has no enerve t sue and yet may be excuentingly painful. He discusses the unconscious visceral and vascular redeves and calls attention to a few paradoxes. Normally the vascular endothelium is devoid of painful sensati ns but v hen batum chloride is in jected into an artery of a sleeping dog there is a pronounced nanful reaction.

nounced painter reaction

In conclusion Leriche quotes from Morat to the effect that hitherto physiology has been occupied with scentific rigid physical investigations in which such problems as sensibility have not been considered. In the living movement is dependent on sensibility and sensibility on movement.

JACOB F KLEIN M D

Hebrant The Climatic Treatment of Surgical Tube culosis (A propo du t tm t climat q e d tuber to s h rurgi ale ) B; ll méd to3 1367

It has been widely taught that surgical tuber culosis should be treated either in the mountains or at the seashore. In central Europe patients are usually sent to the mountains while in France and Belgium they are usually treated in sanatoria built on the coast.

It is of some importance from the social standpoint to know whether or not this practice is justified. The unfav rable psychic influence of a prolonged stay in a sanatorium far from home is well known. In the cases of children education is neglected and the parents are prone to lose is ght of their responsibilities.

In a study of the writings of those v ho regard climatotherapy as a specific the author was unable to find an explanation for the beneficial effect. The improvement has been ascribed to radio activity of the sea water the reflection of 1 ght of short wave length by the sands and ionization of the sur bone of these theories has been proved. In any case the principal factor is the sunlight and it has not yet been established which rays the infrared or the ultraviolet are beneficial. Furthe more it has not been demonstrated that the sunlight in the moun tains is more rich in ultraviolet ray than is the sunlight in the moun tains is more rich in ultraviolet ray than is the sunlight in the plains.

According to some authorities the change of d mate is benefic all as it appears to stimulate the organ sm. With time how e er this effect is gradually lost. Other factors must be considered such as the effect of exposure of the skin to the ar and sunlight which is said to increase metabol sm. some times as much as 40 per cent.

All of the conclusions cited are largely speculative. The auth r finds that the results obtained at ordinary attitudes (Hohenlyshen Bad El ter statistics of Jash and Kohler) compare very favo ably with those of the Swas sanatoria (Rollier). Vulpius be lives that his results are in e ery way comparable with those obtained in the mountains or at the sessiba or

In France the only inland sanatorium is near Paris. The director has found that the patients do quite as well the eas at maritime establishments In the opinion of the author the manner of treating surgical tuherculosis is more important than the place and the social and economic advantages of treatment near home are obviously very great

ALBERT F DE GROAT M D

Sugura k. The Influence of Extracts of the Suprarenal Cortex on the Growth of Carci noma Sarcoma and Melanoma in Animals im J Cancer 1931 v 129

In previously reported investigations the author found that the development of small malignant tumors in animals was completely inhibited by repeated intratumoral injections of suprarenalin hut that repeated subcutaneous injections of supra renalin at a point distant from the tumor failed to evert an inhibiting influence upon the growth of carcinoma and sarcoma. He concluded that the destructive action exerted by suprarenal cortex extracts on neoplasms is due to a marked vasocon strictor power.

Some investigators have thought that removal of the cortex of the suprarenal retards tumor growth and improves the general condition of the patient

This article reports studies of the effect of supra renal cortex extracts upon transplanted carcinoma sarcoma and melanoma in rats mice and chickens

Single or repeated subcutaneous or intramuscular injections of an alcoholic ether aqueous or glycerin extract of the cortical adrenal tissues had no apparent influence upon the growth of transplanted tumors Similarly injections of substances causing a fall in the blood pressure such as choline and the feeding of sodium nitrate failed to show any inhibit ing effect upon the tumor growth. A periodic fall in blood pressure in the animal did not play a role in cancer resistance. Fresh sheep suprarenal cortex or its extract failed to destroy cancer cells in sitro.

Handley W S The Role of Lymph Stasis in the Genesis of Cancer Ann S rg 1931 xcm 68

Handley advanced his lymph stasis theory of cancer in 1946 Recent evidence seems to show that a papilloma or adenoma is the precursor of carcinoma of every variety. The growth of the papilloma is due primarily to an obstructive lymphanoitis of the lymph vessels. This lymphangitis may he due to any form of chronic irritation physical chemical parasitic or bacterial. The nature of the cancer produced does not vary with the nature of the irritant employed. The irritant affects only the environment of the cells which become cancerous

The author presents evidence to show that the common wart the simplest form of papilloma is due to an infective lymphangitis. In ten out of eleven warts sectioned for microscopic examination he found unmistabable evidence of a proliferative lymphangitis. Avial lines of granulation tissue were seen in the center of the papillæ. Handley presents four photomicrographs of warts which support his theory.

MANULE LICITIESSEN M D

Mayo W J Susceptibility to Cancer Ant Surg 1931 xxul 16

The incidence of cancer in various countries which compile reliable statistics is about the same not only as to population ratio but also as to ser although the organs or tissues which are most susceptible to the disease vary considerably. Where as 30 per cent of cancers in the female involve the hreast and the uterus about 30 per cent of those in the male involve the stomach and the organs of the uthrary system.

Cancer never develops in sound tissues Chronic irritation by opening up an atrium for the possible entrance of micro organisms to the hody from the outside seems to suggest an external agent. This does not explain why cancer develops in certain cases in which the sources of chronic irritation are very slight and does not develop in other cases in which the sour es of chronic irritation are very extensive for long periods of time. It is difficult to explain the fact that when cancer has extended by metastasis to a new situation it produces the histopathological picture of the tissues in which it originated rather than that of the organ which hecame affected secondarily. If the disease were due to a foreign invader it would presumably reproduce the type of cells of the newly invaded tissue rather than that of the primary seat of the tumor

A fact of supreme importance which has not been sufficiently stressed is that individuals vary in their susceptibility to the cause or causes of cancer what ever they may be In no other way can we explain why op per cent of persons do not have cancer and to per cent die from it It is as logical to accept the hypothesis that the former have greater resistance to cancer than the latter as to attempt to force an explanation that only 10 per cent come in contact with the hypothetical causative agents which

produce cancer

The stroma about the cancer cell is the measure of the hody's resistance. The greater the amount of stroma and the less the proportion of cells the slower the growth. Also the greater the proportion of cells and the less their resemblance to the normal tissue involved the more rapid the growth. All there is to cancer is contained within the malignant cell which has a remarkable resemblance to the rapidly growing embryome cells of the choriomic villi (Langhans cells). Langhans cells have extremely large nuclei and undergo the most rapid division of any normal cells in the hody but the nucleous and the cytoplasm of the cell have no peculiarity of structure.

Wilson MacCarty and Broders have enlightened us greatly with regard to the histological character of the cell in relation to malignancy upon which Broders classification of the malignancy of tumors

has been based

The studies of Murray on tar painting those of Gye and Barnard on the transplantation of the Rous fowl town the work of Slye on cancer in mice and that of Bowing and Desjardins on the effect of

radium and the \ ray in lessening the malignant character of the growth all suggest that local and general suscept bility is perhaps the controlling factor in the genesis of malignancy and that the poss bilities f increasing resi tance to cancer in more susceptible in lividuals is not only a possibility but a goal which every effort must be made to reach

### Warthin A S Tile Heredity of Cancer in Man A I 1 M d 1931 1 68

Warth a believes that the importance of heredity in the etiology of cancer bas not been suffciently emphasized. He revie a the family histories in a number of cancer cases and cites the multiple in cidence of neoplasm in certain families. There is a tende cy for the carcinoma to be localized in certain organs r ystems There is also f equently a sex limited inheritance. F equently there appears an assoc ated pred position to tuberculosis. The im pres on is obtained that the e re noma develops at an earl er ge in the later generations. In some families the cancer factor is a dominant inheritance and n othe s a recessive inheritance

The av lable evidence indicates () a consti tut onal susceptibil ty to neoplasm and (2) a local organ predispos tion to cancer Instances of iden tical neopl sms attacking the same organs in iden

tical t ins are known

The conception of mendelism which led Slv to re ard inheritable tumor susceptib lity as a simple rece sive unit character is all too primitive. The poss bil tes of inberitance in the almost endless combinations that may result make the inheritance of carcinoma in man impossible to p ed ct. Ne er th les Warthin believes that four factors are in ted a genes the normal constitutional resistance to bl stoma the pathological blastoma const tution the no mal resi tant organ or tissue make up and the pathological organ predi position to cancer He concludes that it a logical to apply pre entire measures f eugenics in the p acti al consideration NA HAN Y CROSS M D of the problem

### Il fiman F L Cancer and Sm kl g if bits 1 5 # 1031

From a revie of the literature and statistics egarding the relationship between cancer and sm king Hoffman d s the fillowing conclusions s Smoking unque tion bly ncreases the hability

to cancer f the mouth th oat exophagus larynx and lungs The change in the cance de th rate during

recent years ha not b en at all disproportionate to the eno mo s increase n cigarette sm king which has replaced the older and unquestionably mo e injurious method of smoking 3 The p oblem is complicated by other f ctors

particularly syphilis and defect ve dental cond tions In the absence of these factors smoking is much less likely to result in cancerous affect on

a Th incre se in cancer of the lungs is probably accounted for in part by cigarette smoking and the inhalati n of cigarette smoke. The latter practice unquest onably increases the dang r of cancer de clopment

5 Moderation in smoking is adv sable. The use of c garette holders and cigar holders of a high degree of conduct vity probably increases the habil ty to cancerous affections

6 The air pollution due to smok ng may ing r tously affect non smoke s

MALLE LOUENSTEL M.D.

#### sestund J Multiple Pr m 13 Mai gnant T mors (U ber m ltiple p me ml ae Tumr ) Leta bet fey e Sea d on

The author reports a case seen at the Gyneco logical Clinic at Upsala in which autopsy performed thirteen years after a radical or er tion f r cancer of the breast d sclosed no e idence of recurrence on the side operated upon but sho ved a cancer in the other breast and an adenosarcoma of the right o ary 1th metastases throughout the abdomen

He reports al o a case of hydronephroma of the kidney associated vith a tumor of the ov which resembled grossly and to some exte t also m cro scopically a cystadenocare noma. The o arian tumor was at first belt ed to be a cystadenocar cinoma but as renewed study of the microscopic slides revealed a picture ag eeing to a ce tain exte t

ith that of the renal hypernephroma it may possibly have been a metastasis of the latt r However it i as very different in both appearance and struc ture from the other metastases

#### Crile G W Ti T atment of Walignancy A S f 1931 x 99

C ife revie a the method employed in the Cle e land Chnic in dealing with cancer of various tissues These methods are based on 390 cases of malig nancy

With regard to cance of the exte nal parts he states that so far as he is aware no case of ca cer de eloping on normal uninjured skin has bee ob served. He calls attention to the fact that especially the skin of the face offers a better oppo tunity for the study of the development of cance than any condition induced in the laboratory Skin canter is al vays p eceded by a precancerous stage a kerato ss a mole o vart o a benign tumor or ulcer In cases of cancer on the buccal surfaces there is usually a history of trauma f om a rough tooth or of leuco plakta or a fis ure

Since cancers obey one general law of growth can ce s of the inner hidden pa ts doubtless follow the same course as cancers of the skin We must con clude therefore that inte nal ca cers have their p e cancer us stages such as chron c irritation nd ul cerative benign growths. In the la ynv the precan cer us state may be a syphil tic ulce o a papilloma in the stoma h a chronic ulcer in the gall bladder ir itating gall stones and cbron c inflammation 1 the la ge intestine and rectum ulce s and irritat on from v ious sources in the breast ch on c inflam

mation benign tumors of certain types and senile changes in the uterus the irritations of pregnancy senile changes and benign growths and in the kid ney and bladder stones and benign growths

Not all precancerous conditions of the internal

organs are amenable to treatment

When the precancerous stage has passed complete removal of the growth-by excision or by A ray or radium irradiation-becomes the only safe pro

Skin Experience in the treatment of 620 cases of carcinoma of the skin and subcutaneous tissues at the Cleveland Clinic has led to the conclusion that radium irradiation is the most efficient treatment for this condition except in cases of pigmented moles In the latter excision should always be done

Jaus and buccal surfaces Cancer of the buccal surfaces demands complete removal of the glands of the neck on both sides In early cases of cancer of the laws a less radical operation is sufficient as this condition metastasizes slowly and usually only on the side of the lesion. In advanced cases, however a wide regional block dissection is indicated. A plat ter of underlying bone should be removed with the

Early cancer of the lip is usually treated success fully with radium Early cancer of the tongue or of the buccal cavity may be treated by irradiation or electrocoagulation. In advanced cancer of the lip or tongue the lesion should be excised and the lym phatic glands of the neck removed by wide block

dissection

Crile emphasizes that while irradiation of the local lesion may be indicated irradiation of the involved lymphatic glands of the neck should never be done as it cannot be depended upon. If the glands of the neck have been irradiated and the patient has re covered we mu t conclude that the glands of the neck were probably not involved. After operation on any part of this field treatment with deep accu rately measured \ ray or radium irradiation is of advantage Handling of the carcinomatous tissue should be minimal and every effort should be made to prevent the implantation of cancer cells in the operative field

Larynx Cancer of the larynx calls for laryngec tomy This is one of the most successful operations for the permanent cure of cancer In the larynx as nowhere else in the body except in visible parts the presence of cancer is evident in its earliest stages Moreover in intrinsic cancer of the larvny there is practically no lymphatic involvement as the cancer cannot penetrate through hyaline cartilage. There is no other situation in the body in which cancer is manifested immediately and from which it cannot be disseminated into the lymphatic glands Post operative \ ray irradiation may be of value as it may check extension of the growth if an undis covered extrinsic focus is present or cancer cells have become implanted In extrinsic cancer of the lary nx the lesion extends rapidly because of the ahundance of lymphatic connections around it and the only

hope lies in local removal of the growth and block dissection of the gland bearing area. In operable cases in which only tracheotomy can be attempted radium irradiation is of value as a palliative measure

Throad In about 90 per cent of the cases of car cinoma of the thyroid gland which have been treated at the Cleveland Chinic the carcinoma was due to the degeneration of an adenoma Therefore Crile beheves that all adenomata should be removed The treatment of carcinoma of the thyroid gland hke that of gotter is mainly a problem of prevention If the case is operable there is no question as to the procedure indicated The only difficulties are pre sented by the moperable cases with obstruction and partial asphyxiation. In such cases radium should be implanted and if the respirators difficulty de mands immediate relief the preglandular muscles should be divided to relieve the pressure of the gland on the trachea In some cases irradiation is followed by disappearance of the carcinoma in others it seems to be of no avail Irradiation may produce myrordema but this is readily overcome by the ad ministration of thyroid extract. The end result of decompression and irradiation in a given case can not be foretold but this treatment is always followed by a period of relief It must be borne in mind that involvement of the neighboring tissues is almost sure to be present and that if the cancer involves the traches there is practically no hope of cure

Esophagus Cancer of the esophagus is one of the most hopeless of malignant conditions for when the patient presents himself it is usually too late for sur gical treatment. The emaciation and weakness due to the dysphagia which is the prominent symptom in themselves increase the surgical risk. In none of the cases reviewed did the patient survive for more

than thirty four months

Breast Of the 1 350 cases of cancer of the breast treated in the Cleveland Clinic only 14 were those of males In 789 cases the condition was treated by surgery alone and in 398 by surgery and irradiation Of the patients who have been traced 25 70 per cent have survived for five years or more

In cases in which the clinical symptoms and the frozen section do not give absolute proof of the char acter of the tumor complete excision of the breast and of the regional lymphatics should be done as the abundant lymphatic channels from the breast may readily produce thoracic and abdominal metastases

The so called benign breast lesions which are possibly pre cancerous include diffuse hypertrophy traumatic lesions chronic mastitis cysts and the

so called benign tumors

The author emphasizes the importance of frequent examination of the breast after the local excision of what appears to be a henigh tumor in order that a radical operation may be performed immediately if the lesion shows any signs of malignancy Biopsy is contra indicated on account of the danger of dis seminating the tumor if it is malignant. Whatever the character of the growth it should be removed en tirely and then sectioned

From the end results of irradiation in cancer of the breast at the Cleveland Clinic Portmann concluded that intensive \(^1\) ray therapy especially by the cross fire method is not the preferred procedure for the postoperative treatment of carcinoma of the breast and that postoperative \(^1\) ray therapy with moderate repeated dosage decreases the incidence of recurrence and metastasis and often prolongs file. Therefore irradiation therapy is given as soon as possible after the operation without vasting until stead of surgery only in cases which are entirely in operable.

Si et A study of the records of 648 cases of cancer of the stomach sho s that there is usually a history of indigestion or ulcer. that ulcer of the stomach sho a distinct potentiality as a precancerous condition. That the history and the X ray fadings are the most valuable means of diagnosis that a differential of agnosis between an old ulcer and an differential of agnosis between an old ulcer and an differential of agnosis between an old ulcer and and that when cancer is suspected exploration should be done at once. In late cases there is get at danger of metastas is especially to the liver or retroperationed glunds after surgical removal of the lesson

Cancer of the stomach is characterized by such rapidity of growth and such extensive lymphatic in volvement that it reaches an inoperable stage very early in its process. Since the earliest stages are practically asymptomiess and the earliest symptoms re those of more or less mild indigestion the maionity of easies eome for treatment too late for cure

The operation indicated is the widest possible ex aion of the growth. In cases in which the program is appea is to be hopeless the use of hold transfusion injections of saline solution diathermy, during and after the operation the application of hot packs and operation performed in stages may some times effect, a cure or result in a comfortable pro longati n of life. In some cases disappearance of the supposedly cance our smass after the first stage of a tro stage operation has rendered the second stage unnecessary.

Of 95 cases treated by resection five year survival resulted in 694 procent and of 68 treated by gastro entero tomy five year survi al resulted in 52 per cent in 2 cases teated by irradiation alone there

were no five year su vivals

Call bladder When a patient presents symptoms referable to the gall bladder which have heen present for mo e than a year the poss bit ty of malig maney of the gall bladder should be considered. As cancer of the gall bladder is usually associated with collects that teatment for the latter condition is often given until the d sease bas extended into the liver and deep structures and it is too late for operation to be of avail. If the presence of the malignant condition is recognified before extension to the liver has occurred immediate cholecystectomy is in dicated.

Li cr Cancer of the liver is rarely primary and is always incurable

Intestines and rect im. Six hundred and eighty five cases of carcinoma of the large intestine and rectum have heen treated at the Cleveland Clinic. Of the patients who can he traced 8 45 per cent ha e su vived for five years or more

The diagnosis of carcinoma of the small intestine is made from the history and clinical signs and the X ray picture. When such a carcinoma is found an exploratory operation should be performed to determine its operability and it should be remived.

immed ately if possible

In cases of carcinoma of the large intestine and rectum a colostomy should usually be done and fol lowed hy radical operation with postoperative roentgen stradiation. In cases in which the growth is so low in the rectum that it is read is acce sible the implantation of radium needles and the applica tion of radium packs may be sufficient. In inoper able cases a colostomy should be done and follo ed by irradiation There should he a period of about ten days between the colostomy and the decis on as to the method of treatment since that length of time is necessary to allo the inflammatory reactions of the disease to subside sufficiently. The deci on as to the type of operation to be performed depends of course upon the findings of an exploratory opera tion. After the colostomy the entire picture may change

While deep roentgen graduation is beneficial after operation or rad um treatment it is of I tile if a v

value in the treatment of recurrences

Genito: 1 uay o ga : Of the patients treated for malignant disease of the genito urmany organs at the Cleveland Clime who can be traced o \$4 per cant of those treated for malignancy of the bidneys and 3 75 per cent of those treated for malignancy of the laney of the prostate have survived five years or

longer
In general malignant tumors of the genito un
nary organs are best treated by surgery with in cer
tain eases the addition of irradiation. In inoperable

cases irradiation may be the only possible treatme t Tumors of the kidney in child en may sometime he reduced by deep roentgen therap, but the irradiation must be followed later by surgery

For mal gnant tumors of the k dney in adults the indicated freatment is surgery with trad aton be fore and after operation. Itrad ation will often so reduce the size of the tumor that an inoperable c se becomes operable. Tumors of the kidney should be tradiated however hopeless the outlook. In some cases of deep bladder tumors radium has seemed of value but the results are too uncertain for its rout ne use. Postoperative irrad ation is employed in many cases but principally because of the hope that it may be of avail rather than because of any definite essults that have been obtained up to the p esent essults that have been obtained up to the p esent.

Mahgnant tumors of the testes are t eated by surgery 1th 1 radiation both before and after operaIn carcinoma of the prostate it remains to be decided whether prostatectomy or irradiation is the treatment of choice. The author believes that prostatectomy is to be preferred in uncomplicated cases but in cases in which a high blood urea cannot be reduced irradiation may be the only possible treatment or may be indicated to tide the patient over until prostatectomy can be performed.

Vierus Seven hundred and eighty three cases of carcinoma of the uterus have been treated at the Cleveland Chinic Two hundred and eleven were cases of carcinoma of the fundus and 573 were cases of carcinoma of the fundus who can be traced for carcinom of the fundus who can be traced 48 aper cent have survived for five years or longer It is still unknown whether surgery or irradiation is the treatment of choice for carcinoma of the fundus but in carcinoma of the cervix the pre eminent value of irradiation appears to be established

In the case, of women past middle age who have an intermittent or continuous uterine discharge an immediate complete hysterectomy should be per formed even if the character of the discharge does not appear to indicate the presence of a malignant condition Curettage is contra indicated in such cases for if cancer is present this procedure will disseminate the cancer cells

In inoperable cases of carcinoma of the fundus deep roeotgen therapy is of value for palliation and the prolongation of life

In the irradiation of carcinoma of the cervix both radium and deep roentgen therapy are used Ra dium is applied in needles and by packs

Otary When carcinoma of the ovar, is primary which is rare the removal of both ovaries is indicated. If the peritoneum is extensively involved deep roentgen therapy may retard the disease

Bone I is still uncertain whether a primary ma lignancy of bone should be treated by roentgen irradiation or by surgery but it has been definitely established that if operation is performed it should be preceded and followed by roentgen irradiation and if the condition is in a limb amputation should immediately follow irradiation provided the condition is operable. The only treatment for metastatic tumors is palliative roentgen irradiation. Radium is contra indicated as it will destroy the periosteum and cause necrosis.

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NOTE -THE BO D FACE FIGURE IN BRACKETS AT THE RIG IT OF A RE E ENCE INDICATE THE PAG OF TMS ISSUE ON WI CH IN ABSTRACT OF THE ARTIC P REFERE D TO MAY BE FOUND

### SURGERY OF THE HEAD AND NECK

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# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

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#### Reticulo End thelial System

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tervention E Pozzi Riv ital d ginec 1930 vi 472
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# PHYSICOCHEMICAL METHODS IN SURGERY

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# Miscellaneous

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#### Experim ntal Surgery

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#### Medical Jurisp udence

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# International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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## CONTENTS

I	Index of Abstracts of Current Literature	111 VI
п	Authors	V 111
Ш	Abstracts of Current Literature	505 571
ΙV	Bibliography of Current Literature	572 596
v	Volume Index	ı xxvın

# CONTENTS-JUNE, 1931

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		rha es	51
Head		ORTON S T A Clinical and Pathological Study of	J.
KEGEL R F C Central Tumors of the Lower Jaw	503	Two Cases of Obstruction of the Aqueduct of Sylvius	51
<b>v</b>		LINDAU A SARGENT SIR P COLLINS L T RID	
Eye		Tumors of the Brain and Spinal Cord	51
THOMAS J W T Successful Graft ng of the Cornea in Rablits	505	MEAGHER P and EISENHARDT L Int acranial Carcinomatous Metastases	51
Ear		BAHLEY P and BUCY P C The Origin and Nature of Meningeal Tumors	51
MFLIZER P E Gradenieos Synd ome Anatomical Aspects	506	ELSBERG C A The Meningeal Fibroblastomata (Dural Endotheliomata Meningiomata Arach	•
Nose and Sinuses		noid Fibroblastomata) Their Ori in Gross Structure Blood Supply and Effects upon	
GOLDSMITH P G The Treatment of Paranasal Sup		the Brain Principles of Technique for Their Removal	51
puration Persi ting After Operation  HASTINGS H Osteomyelitis As ciated with Frontal	507	Morris L Trigeminal Neuralgia The Anatomy of the Hartel Technique	51
Smusitis The Value of Preserving the Anterior		the marter rechnique	54,
Wall with the Attached Periosteum \ Report of Cases	507	Spinal Cord and Its Coverings	
Mouth	•	Schroeder A Anatomical and Clinical Study of Two Cases of E tramedullary Tumor	51
SANTORO A Radium Therapy in Cancer of the Mouth	597	Pempheral Nerves	
QUICK D NELSON P A HAACENSEN C D	3-7	HANNAH J A Regeneration of Peripheral Ner es	
DUFFY J J and Others Special Clinic on Epithelioma of the Lip	508	An Experimental Study	51.
_p		Miscellaneous	
Pharynx		I OERSTER O The Surg cal Treatment of Neurogen c	
Recur ences Entirely Due to Faulty Operative		Contractures	51
Technique	508	SURGERY OF THE CHEST	
WT-		SURGERI OF THE CHEST	
Neck		Chest Wall and Breast	
LEWIS W Hyperthyrod sm and Assoc ated Pa thology	508	LEE B J and PACE G T Grant Intracanalicular Myroma of the Breast	51
MORA J M and GREENE E I Thyroidectomy for Thyrotoxicosis n Olde People Report of 200		MARTINDALF L The Treatment of Cancer of the	-
Cases Mer the Liftieth Year	509	Breast  Pranter G E and Parry L D Roentgen Ther	517
LÉRI A LAYANI F LIÈVRE A J and WEILL J \ Case of Progress ve O teitis Fibrosa Cystica		apy in Carcinoma f the Brea t	518
Treated by Parathyro dectomy	554	LEVZ M and FREID J R Metastases to the Skele ton Brain and Spinal Cord from Cancer of the	
Schnabel T G Hyperpa athy d sm with Oste itis Fibrosa Cyst ca (Parathyroid Hyperplasia)	554	B east and the Effect of Radiotherapy	518
SURGERY OF THE NERVOUS SYSTEM		SCHREINER B F The Results of Treatment of Cancer of the B east	518
Brain and Its Coverings Cranial Nerves		Trachea Lungs and Pleura	
DFLAGENIERE Y The Futility and D ngers of		JACOBAELS H C and WESTERMARK N \ Turther Study of Wass ve Collapse of the Lung	510

Stones

FREEDMAN E The Roentgen los cal App a ce f

n in the Th ray	5 9	August O The Cha ge th C mm n D ct  Mt r Chol cy t etomy Stud ed I om the II sto log cal Pot t of View	Ċ
HENDERSON Y I complet Dilat to of th Lungs as a F ct rin Neo tal Mot f ty	546	-	533
(Esophagus and Mediastin m		Miscellaneous	
MACMILLAN A S D sea s of the Esoph gus	520	JUST E S bouta e s Abdom a U ; s GIUSTINIAN V nd ANTONELLI A Cognital	533
GUISEZ J S e al Ca sof Ca rof the Fsoph gus T eated Succ ssf lly with Rad um	5	D phr gmat c He 12 na Inf nt	534
Miscellaneous		GYNECOLOGY	
Bittner K The S g cal Treatment of Ch t	5 1	Uterus Szymanowicz pd Pi karska Po t pe ti R	
SURGERY OF THE ABDOMEN		It n Cases f Ut rin Malpo ti n Muratea P \ Ped cul ted Fib s Cy t f the	536
Abdominal Wall and P ritoneum		Cnt	536
Me ever F L Harvey H D and Jean H Z		DESPAUX F TheR s ta ce I th Cervis t Ca ce i C mplet P l p of the Uteru	536
Priton to I The Crick ton fith But to lay fith Pe to lE dite and the Clical Cris of the Dearm 6 Cas of		Roe to Co trol in Rad m Therapy of the Uterus	537
Pent niti REWBRIDGE A G The It log cal Rôle f Ga	5 3	******	351
Frming Bell : E per mental B! Perit it	524	Adnexal and Periuterine Conditions	
Gastro-Intestmal Tract		F m le Se Glands Re rehe on th Ov n	537
COMPORT M W S brunc s L pormst f the Ga tro I te t   Tract A R po t of Twe ty E ght C es	524	Treatment i Sche ocy tic O riti It B Tech que nd Results	537
MARTINI T d CURLITCHET R E Le sth ma of the Stomach F rst R s lt f It Treatment by Ga t ot n m try	5 5	Maye R The V n ty 10 n n T mo Th t Leads to M sculing to	538
RENANDER A Roentge   g cally St ded C ses of		Miscellaneo s	
G stri Tub cul 3 s Eusterman G B G t c Syphib Ob to s	5 5	Gaus C J The Clin cal P t I Temp rary R e tg Am o hora	
B d Ni ety Th Ca's EMERY E S Is d Mon of R T P pt c UI	525	FINDOCI V Case [ D rm d Cy t Fre the	539
EMERY E S JR d MON OF R T P pt c UI The Diag t V i e f the R e tg R y B f e d Afte T eatment	526	P chof D g! Meakes S R A S riey of C sat Fat si	240
Morle J d'Twinino E W Th Me h m I D p I nd me n G str d D den i UI	527	St bty	240
SULLIV N A J Th Roll of S gery th Teat ment of lept Ule	527	OBSTETRICS	
BASTIA TELL R C un m P g st od od !	528	Pregnancy and Its Complications	
THU STON II F The Rôle f the T in of B ill s W l hit th To zemia I A te I t stal		MEYER S E t a Ute ne Pregna cy N Term a d Infected	54
Ob tructi An Exp imental St dy VALLEBONA A Th Imp ta of Roentg E	528	COLLE J B THOMSON D L McPHAI M K a d WILLIAMSON J L The Ant r r P tu tary	
am t n D denal Ul RANKIN F W d BARC v J A V e tion	5 8	RIVIER M A C mp at e M co pe St dy of	541
Ag in t P t nitis in S g ry f the C lo F the R po t	5 9	So-Call d Albuminu: Syphiltic and A rmal	54
ALLENDE C I Potoprts Complet n of App d ts	53	NUERNBE GE L St de th I term duit I : M t bol m the Fetu	54
GABRIEL W B The Rem 1 f Po to of M 1g n t T mo s f th Rectum f r C firmatory S ction	539	CAFFI P Th T tm nt of Hype mesis with S ga nd In hn Emp rical Exp rienc a d Th cry	54
IIIRSCHMAN L J S m Prin ples Und fying th Suc sful T e tm t f S me An rectal	224	SMITH C T d KINLAW W B Clini al Co sid rati n of an A zen f P gnancy d th	•
Suc sful Tetrs t i S me An rectai Disae	53	Purpe um	54

STIECLITZ E J Nephritis in Pregnancy PORCARO D Experimental Researches on the Al ternating Function of the Renal Glomeruli in Ordinary Conditions and in Pregnancy	543 548	SPEED K Aerocele of the Scrotum HAGNER F R Sterility in the Male	55 552
Labor and Its Complications RUDOLPH L and IVY A C The Co ordination of		SURGERY OF THE BONES JOINTS MUSC TENDONS	
the Uterus in Labor  KAPEL O Clinical Experience with Obstetrical Anesthesia Induced by the Administration of a Barbital Derivative in Conjunction with Syn thetic Pantopon  CLEMENTE D Complete Spontaneous Rupture of the Uterus in Labor Vesico Uterine Fistula Recovery  AUDEBERT J L Procidence of Limbs  EDGECOMBE K Dystocia Due to Id opathic Dilata tion of the Fetal Urinary Tract  FERRO DIAZ L M Segmental Transperitoneal	543 543 544 544 545	Conditions of the Bones Joints Muscles Tendons Léri A Layani F Lièvee A J and Weill J A Case of Pro ressive O teitis Fibrosa Cystica Treated by Parathyroidectomy Schnarle T G Hyperparathyroidism with Osteits Fibrosa Cystica (Parathyroid Hyperplasia) Shands A R The Regeneration of Hyaline Carti lage in Joints An Experimental Study Cerci. R L Nicholus E E and Stainssy W J The Ethology of Rheumatoid Arthritis Comman E \u03b1 and Akerson I B The Pathology Associated with Rupture of the Supraspirative	554 554 555 555
Cosarean Section  ESMANN V The Course of Labor in Prinipage from Forty to Forty Six Years of Age	545 545	Tendon MASSART R The Formation of Ostcomata at the Elbon SMITH N R The Intervertebral Disks	555 556 556
Newborn  PANKOW O The Effects of Pregnancy and Labor on the Child  HENDERSON Y Incomplete Dilatation of the Lungs	546	CALVÉ J and GALLAND M A Clinical Study of Twenty Four Cases of Nuclear Vertebral Hernia (Intervertebral Disks) and of Three Cases of Epiphysitis	556
as a Factor in Neonatal Mortality  GENITO URINARY SURGERY	546	MANTOVANI D Calcification of the Nucleus Pul posus of the Intervertebral Disks MAYER L Fixed Paralytic Obliquity of the Pelvis LEEMANS G Ettra Articular and Intra Articular	557 557
Adrenal Kidney and Ureter		Snappin Hip	558
STIEGLITZ E J Aephritis in Pregnancy ROWNTREE L G GREENE C H SWINGLE W W and PETFURE J J Add son s Disease MACKEY W A Excretion Uro raphy An E per- mental Investigation of the Properties of Uro selectan	543 547 548	Surgery of the Bones Joints Muscles Tendons Fèvre M and Bureau R Arthrodesis of the Spine in Scoliosis Lavalle R My Pirst Eighty Nine Cases of Potts Discuse Operated upon by the Robertson Lavalle	558
PORCARO D Experimental Re ea ches on the Alter nating Function of the Renal Glomeruh in Ordinary Conditions and in Pregnancy	548	Procedure POUZET F End Results of Resection of the Cal caneus for Tuberculosis	558 559
TAROZZI G Some Unusual Forms of Renal Tuber culosis	548	Fractures and Dislocations	
Kretschmer H L and Hibbs W G Mixed Tumors of the Kidney in Infancy and Child hood A Study of Se enteen Cases Tedeschi C Mixed Hypernephroid Tumors of the Kidney BACCARINI L and Morozzi A An Experimental Study of Decapsulation of the Kidney	549 550 550	GALLAND M Various Displacements of the Intervertebral Vucleus Pulposus Antepulsions Lat cropulsions Petropulsions Posterior Luxation and Paraplegia JONES R W Manipulative Reduction of Crush Fractures of the Spine GUEDJ P Traumatic Luxations of the Knee GATELLIER J The Juxtarteroperoneal Route in the	559 559 560
Bladder Urethra and Penis CHAUVIN E The Treatment of Urethrorectal Fistulae by Interu ethrorectal Myorrhaphy of the	550	Operative Treatment of Fracture of the Mal leolus with a Posterior Marginal Fragment	56o
BAGNOLI N Cases of Epithel oma of the Penis	551	SURGERY OF BLOOD AND LYMPH SYSTE. Blood Vessels	MS
Genital Organs  BARRINGER B S Carcinoma f the Prost te ROMITI Z Primary Malignant Tumo s of the Ectop c Testicle	551 552	WRIGHT A D The Treatment of Indolent Ulcer of the Leg BUXX The C realatory Hormone in the Treatment of Gangrene of the Extremities	561 561

561

561

PENANDER A Roentg n I g c lly Stud ed Cases of

EMERY F S JR a d Movace R T P pt c Ul r
The D gn st c Valu of the R tg n R y B
I c and Mt T catment

VALLEBONA A The Imp 1 m of Roentgen F am nat n Duod nal Ul

52

56

58

Gast c Tub reul s

Blood Transfu on

BORDLEY J III R to Foll wig Tran f n fB! d with Urn ry Supp es nand U mm

POLATES S H nd I E ERER M Transm n f Syph! by Blood T an f n

Lymph Glands and Lymphat c Vess Is

Lymph Glands and Lymphat c Vess is	ESCUERRA GÓMEZ 1 and ESCUERRA GÓMEZ G	, ,
STE ART F W. nd DOAN C 1 in Analy I th Lymph de p thy Q str n w th Spec 1 Refe no t Hodgl n D ase d T be	R ntg Cnt ol n Rad m Th rapy f th	537
cul sough a se d s se	Roents a Am hara	539
•	MACKEY W A E rt n Urg phy An E pen	334
SURGICAL TECHNIQUE	m ntalln ig ton f the lipe tes of U lect n	548
Operative Surgery and Technique Postop rat ve	Trouso G P S m Rec at Expe in t Cath d Rays  Designates \ U R d th raps f g Inflamm t sy	567
HUME J B Sug 1 Tra m nd Co alesce c 563	C dt n	567
DE TALATS G Pu h fl d The S ge as Post		
p t Ord 563 Nic arev J and Ni olasse K P phyl t	Radium	
M Ag nt P t p rat Thrombos nd Eml   m		5 7
Besus F United P to sat I jury t th	G ssrz J Se   Case   C nee   th Esophag Tr t d S es   lly w th R d m	5
Diaphra m 564	ESCLERIA GÓMEZ A d ESCUERA GÓMEZ G	3
BA M nd Mose P T Prg I t	Keenig n C tr l in R d um Th rapy f the	537
		568
Anosth sa		
Jonnerov F D ad CABO H E pl n O ur ung D g th U f l thyl 56	M stellan ous	
O M TED I NE D and GIRAGOSSINTE G S m	CUMBERS TON E P Th Use of D th rmy in	
Dff t f Amyt i Anæsth 566	Nd nadSugry	563
Eff t f Amyt i Anastb 566 FREIDLAENDE B Th Th put Indc t f		563
Eff t { Amyt   Amesth 566  FREIDLAENDE B Th Th put Indc t 1 th Sod m Salt fthe Sec ndary B tyl B Br m	MISCELLANEOUS	56B
Eff t { Amyt   Amesth 566  FREIDLAENDE B Th Th put Indc t 1 th Sod m Salt fthe Sec ndary B tyl B Br m		•
Eff t { Amyt   Annestb   566  FREIDLAINING B Th Th put   Indict   f   th Sod m Salt (the See ndary B tyl R Br m allyl Babt c \ d (P m t n)   566  Surgical Instrum nis and Apparatus	MISCELLANEOUS Chuical Entities-Gen rat Phys ological Conditions Chearle Sir G I N t rat Law n P th ! cal	
Cff t Amyt I Annestb 566 FERTHALKINE B Th Th D ut Ind c t f th Sod m Salt (the See adary B tyl R Dr m allyl Ba b t c d (F m t n) 506 Surgical Instrum at s and Apparatus MELE BY F L and CHATTHELD M The St tlty	MISCELLANEOUS  Climical Emittes—Gen rat Physiological Conditions CREARE Six G   N t rat Law n P th   cal Gr with	569
Eff t { Amyt   Annestb   566  FREIDLAINING B Th Th put   Indict   f   th Sod m Salt (the See ndary B tyl R Br m allyl Babt c \ d (P m t n)   566  Surgical Instrum nis and Apparatus	MISCELLANEOUS  Chinical Embines—Gen ral Physiological Conditions  Chearle Sir G T Not cal Law n P th T cal  Gr wth  Hillan R Th E gm fth Chibi	
Eff t Amyt I Annestb  566  FERDILARIND B Th Th p ut Ind c t f th Sod m Salt (the See ndary B tyll Br m ally Bab to c d (f rm t n)  Surgical Instrum ats and Apparatus  MELE RY F L nd CEATTREED M The Strity of Calat in R I to it H p t I Indiced s	MISCELLANEOUS  Chuncal Entities—Gen rai Phys ological Conditions  CHEARLE Sir G I he tail Law n P th I cal Gr with  Hillam R Th E gm fth Chibi  Vo F L nd B co H J Exp m nt I so Cln al Stude s nth T atment (Ean by	569 569
Eff t Amyt I Annestb  566  FERDILARIND B Th Th p ut Ind c t f th Sod m Salt (the See ndary B tyll Br m ally Bab to c d (f rm t n)  Surgical Instrum ats and Apparatus  MELE RY F L nd CEATTREED M The Strity of Calat in R I to it H p t I Indiced s	MISCELLANEOUS  Chinical Entities—Gen rai Physiological Conditions  CHEARLE Sir G I Not rai Law n P th 1 cal Gr with  Hillan R Th E gm fth Chibl  Vo F L nd B co H J Exp m nt 1 sd  Cln al Stude s n th T atment (F Can b)  D bl thyls lphd (Mustard C)  Pierr ras D B U df n t ted R d Cli	569 569 57
Cff t { Amyt   Annestb   566 FERTILLARINE B Th Th p ut   Ind c t   f   th Sod m Salt (the See ndary B tyl II Br m allyl Ba bt c \ \text{d (P m t n)} \	MISCELLANEOUS  Chinical Entities—Gen rai Physiological Conditions  CHEARLE Sir G I Not rai Law n P th 1 cal Gr with  Hillan R Th E gm fth Chibl  Vo F L nd B co H J Exp m nt 1 sd  Cln al Stude s n th T atment (F Can b)  D bl thyls lphd (Mustard C)  Pierr ras D B U df n t ted R d Cli	569 569
Eff t Amyt I Annestb  Eff t D put Inde t th Sod m Sait (the See ndary B tyll Dr m aliyi Bab te v d (fr m t n)  Surgical Instrum ats and Apparatus  Melle my F L nd Chartyfeld M The Strily of Catg t n R lt n t H put Indeed a with n Lift t Testfo the St l ty f C tgut 366  PHYSICOCHEMICAL METHODS IN SURGERY  Roentgen logy	MISCELLANEOUS  Climical Entities—Gen ral Physiological Conditions  CREATE Six G I N t cal Law n P th I cal Gr wth  Halan R Th E gm f th Ch Ibl  Vo F L nd B co H J Exp m nt I ad  Clin al Stude s nth T atment (Fan b)  D bl thyls liph d (Mustard C )  Piem rae D B U d ff nt ted R d C ll  Sa oon ta	569 569 57
Eff t Amyt I Annestb  Eff Th p ut Inde t th Sod m Sait (the See ndary B tyll Br m ally Bab to c \ d (f' m t n)  Surgical Instrum ats and Apparatus  MELE EY F L nd CHATTIELD M The Strity of Catg t n R lt n t H p ti Indee a with n Lift t Testfo the St l ty f C tgut 366  PHYSICOCHEMICAL METHODS IN SURGERY  Roentgen logy  Fr HER G E d F RRY L D R nig n Ther py n Cac m f th B t 5 8	MISCELLANEOUS  Climical Embites—Gen ral Physiological Condutions  CREATE Six G I	569 569 57
Cff t Amyt I Annestb  Eff t P put Ind ct th Sod m Sait (the See ndary B tyll Br m ally Bab to c \ d (Cr m t n)  Surgical Instrum nis and Apparatus  MELE MY F L m CEATTIELD M The Strily of Caig, tn R lt n t H p 1 l Infect with a Eff t Testfo the St l ty f C tgut  PHYSICOCHEMICAL METHODS IN SURGERY  Roenigen logy PT MIER G E d P REV L D R big n Ther py n Cac m f th B t  LEN M n d Trail P N t t th SA 1	MISCELLANEOUS  Climical Entities—Gen ral Physiological Conditions  CREATE Six G I N t cal Law n P th I cal Gr with  Halan R Th E gm fith Chibl  Vo F L nd B co H J Exp m nt I ad  Clin al Stude a nth T atment f Can by  D hI thyls liph d (Mustard C)  Piex rae D B U d ff nt ted R d C ll  Sa on ta  General Bacterial Proto oan and Paras t Infector  CAMMAN F T S me Immunol g I Pr bi ms a	569 569 57
Eff i f Amyt I Annestb  Eff I have I Annestb  F Th Th p ut Ind c t I th Sod m Sait (the See ndary B tyll Dr m ally) Bab t c \ d (f' rm t n)  Surgical Instrum ris and Apparatus  MELE MY F L and CHATTHED M The Strily of Catgat in R l t n it II p til Infect a with a Lift t Testfo the St it y if C igut 366  PHYSICOCHEMICAL METHODS IN SURGERY  Roenigen logy  Prices G E d F ary L D R sign Ther  Py a Cac m ith B t  Lift M and Train J R M t t th SA 1  Be stand the En t if R d th rapy  5 8	MISCELLANEOUS  Clinical Entities—Gen ral Physiological Conditions CREARIE Six G I Not call Law in Poblical Growth Halam R The E gm fith Chibl  10 F L ind B co H J Exp mind and Clinial Studies in the Tamment (Can by D bl thyls light (Mustard C) Pieur ras D B U d H in tied R d Cli Sa om ta  General Bacterial Proto oan and Paras to Infecto Camman F T S me Immunol g 1 Pr bl ms a Spt cmma	569 569 57 57 57
Eff t Amyt I Annestb  Eff t Pamyt I Annestb  First Daarmer B Th Th p ut Ind c t t th Sod m Salt (the See ndary B tyll Br m ally Bab t c \ \text{d} (f' m t n)  Surgical Instrum ats and Apparatus  MELE FY F L nd Chartreed M The St city of Catge t n R t n at t H p it limbed a with n Life t Testfo the St lify IC tight good  PHYSICOCHEMICAL METHODS IN SURGERY  Roentgen logy  Pr MER G E d P RRY L D R night Ther  pp n Cac m fith B t  Lex V nd Press J R M t t th SA 1  ton Bran nd Spn L Crd fr m Cas th  B c st and th Ed t f R d th rapy  \$ 8  RESEDN R E Th P cent couls c l Appa rape f	MISCELLANEOUS  Chuncal Entities—Gen rai Phys ological Conditions  CHEARLE Sir G I N t rai Law n P th I rai  If MAN R Th E gm fth Chibi  10 F L nd B ro H J Esp m nt I ad  Cln al Stude s nth T atment (Fan b)  D hi thyls lph d (Mustard C )  Preur res D B U d ff nt ted R d Cli  Sa om ta  General Bacterial Proto can and Paras te Infector  CAMMAN I T S me Immunol g 1 Pr bi ms a  S pt em a  Exp remental Surgery	569 569 57 57 57
Eff i f Amyt I Annestb  Eff I have I Annestb  F Th Th p ut Ind c t I th Sod m Sait (the See ndary B tyll Dr m ally) Bab t c \ d (f' rm t n)  Surgical Instrum ris and Apparatus  MELE MY F L and CHATTHED M The Strily of Catgat in R l t n it II p til Infect a with a Lift t Testfo the St it y if C igut 366  PHYSICOCHEMICAL METHODS IN SURGERY  Roenigen logy  Prices G E d F ary L D R sign Ther  Py a Cac m ith B t  Lift M and Train J R M t t th SA 1  Be stand the En t if R d th rapy  5 8	MISCELLANEOUS  Clinical Entities—Gen rai Physiological Conditions CREARIE Six G I Not call Law n P th I cal Gr with HLAM R The E gm fith Chibl Up F L nd B co H J Esp mint I ad Clin al Studen in the Taiment (Can b) D hi thyls liph d (Mustard C) Prem ras D B U d fi not ted R d C li Sa om ta  General Bacterial Proto can and Paras to Infection CADMEAN F T S me Immunol g 1 Pr bi ms a Spt em a  Exp rimental Surgery Lis J D Th R to I H al gof Fie t goal	569 569 57 57 57
Eff i f Amyt I Annestb  Eff i f Amyt I Annestb  FERTMALINE B Th Th p ut Ind c t I th Sod m Salt (the See ndary B tyll Br m ally ill be t c \ d (f' m t n)  Surgical Instrum ris and Apparatus  MELE FY F L nd CHATTIELD M The St rity of Catgat in R lt n t II p til Infect a with n Lil t Testfo the St lty i C tigut 366  PHYSICOCHEMICAL METHODS IN SURGERY  Roentgen logy  Pritter G E d P may L D R mig n Ther Fy and St m fth B t See St no Bran n also n 1 C rd fr m Can 1 th See St no Bran n also n 1 C rd fr m Can 1 th See St no Bran n also n 1 C rd fr m Can 5 Ft Freed with E 1 th C th Lil to Bran n also n 1 C rd fr m Can 5 Ft Freed with E 1 th C th Lil to Bran n also n 1 C rd fr m Can 5 Ft Freed with E 1 th C at La ps at the Fu Intel b and M d to all to ps th d Fu in Table 1 b and M d to all to ps th d Fu in Figure 1 th Fu in M M to all to ps th d Fu in Figure 1 th C and Fu in Call From 1 th E 1 b and M d to all to ps th d Fu in Figure 1 th C and Fu in Call From 1 th E 1 b and M d to all to ps th d Fu in Figure 1 th Fu in M M to all to ps th d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the C all to ps th	MISCELLANEOUS  Clinical Entities—Gen ral Physiological Conditions CREARIE Six G I Not call Law in Poblical Growth Hillam R The E gm fith Chibl  10 F L ind B co H J Exp mind and Clinial Studen in the Tamment (Can by D hi thyls light (Mustard C) Preix rea D B U d H inted R d Clinian General Bacterial Proto can and Paras to Infection CAMMAN F T S me Immunol g 1 Pr bilms in Spitem a  Expressed Surgery Lis I D Th R to I H all gof Flot goal	569 569 57 57 57 ons
Eff i f Amyt I Annestb  Eff i f Amyt I Annestb  FERTMALINE B Th Th p ut Ind c t I th Sod m Salt (the See ndary B tyll Br m ally ill be t c \ d (f' m t n)  Surgical Instrum ris and Apparatus  MELE FY F L nd CHATTIELD M The St rity of Catgat in R lt n t II p til Infect a with n Lil t Testfo the St lty i C tigut 366  PHYSICOCHEMICAL METHODS IN SURGERY  Roentgen logy  Pritter G E d P may L D R mig n Ther Fy and St m fth B t See St no Bran n also n 1 C rd fr m Can 1 th See St no Bran n also n 1 C rd fr m Can 1 th See St no Bran n also n 1 C rd fr m Can 5 Ft Freed with E 1 th C th Lil to Bran n also n 1 C rd fr m Can 5 Ft Freed with E 1 th C th Lil to Bran n also n 1 C rd fr m Can 5 Ft Freed with E 1 th C at La ps at the Fu Intel b and M d to all to ps th d Fu in Table 1 b and M d to all to ps th d Fu in Figure 1 th Fu in M M to all to ps th d Fu in Figure 1 th C and Fu in Call From 1 th E 1 b and M d to all to ps th d Fu in Figure 1 th C and Fu in Call From 1 th E 1 b and M d to all to ps th d Fu in Figure 1 th Fu in M M to all to ps th d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the d Fu in Figure 1 th C all to ps the C all to ps th	MISCELLANEOUS  Clinical Entities—Gen ral Physiological Conditions CREARIE Six G I Not call Law in Poblical Growth Hillam R The E gm fith Chibl  10 F L ind B co H J Exp mind and Clinial Studen in the Tamment (Can by D hi thyls light (Mustard C) Preix rea D B U d H inted R d Clinian General Bacterial Proto can and Paras to Infection CAMMAN F T S me Immunol g 1 Pr bilms in Spitem a  Expressed Surgery Lis I D Th R to I H all gof Flot goal	569 569 57 57 57 ons

# BIBLIOGRAPHY

Surgery of the Head and Neck		Genito Urinary Surgery	
Head Eye Ear Nose and Sinu es Mouth	5 2 5 2 5/3 573 574	Adrenal Kidney and Ureter Bladder Urethra and Penis Genital Orwans Viscellaneous	380 58 388 588
Pharnyx Neck	574 5 4	Surgery of the Bones Joints Muscles Tendor	ΔS
Surgery of the Nervous System Brain and Its Covenn's Crainal Nerves Spinal Cord and Its Covenn's Peripheral Nerves Sympathetic Nerves Miscellaneous	575 5 6 576 576 576	Cond tons of the Bones Joints Muscles Tendon Etc Surrery of the Bones Joints Muscles Tendon Etc Fractures and Dislocations Orthopedics in General  Surgery of the Blood and Lymph Systems	35S 500 01
Surgery of the Chest Chest Wall and Breast Traches Lun,5 and Pleura Heart and Percardium Esophagus and Viedustinum Miscilancous	5 6 577 5 8 578 578 5 8	Blood Vessel Blood Transfusson Lymph Gland and Lymphatic Ve els Surgical Technique Operative Surgery and Technique Postoperati e	59 59 <sup>2</sup> 59
Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro Intestinal Tract Liver Gall Bladder Pancreas and Spleen Miscellaneous	78 578 581 58	Treatment Ant.eptc Survery Treatment of Wounds and In fections Anzethesia Surgical Instruments and Apparatus	59 593 594
		Physicochemical Methods in Surgery	
Gynecology Uterus Adnexal and Periuterine Conditions External Genitalia Miscellaneous	582 582 583 583	Roentgenolory Radium Miscellaneous Miscellaneous	394 394 394
Obstetrics		Cl nicalEntities-General Phys olonical Conditions	59
Pregnancy and Its Complications Labor and Its Complications Puerpenum and Its Complications Newborn Miscellaneous	584 58 586 586 586	General Bacternal, Protozoan and Para itic Infec- tions Ductless Gland Surgical Patholovy and Diamo-is Experimental Survery Hosp tal Medical Education and History	39 39 36 396

## AUTHORS OF ARTICLES ABSTRACTED

Adda r F F 570
Averson I B 555
Averson I B 555
Alt of M 1 555
Br of N 1 55
Br of N

# INTERNATIONAL ABSTRACT OF SURGERY

JUNE 1931

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

#### HEAD

Kegel R F C Central Tumors of the Lower Jaw Radiology 1937 VV1 276

Central bone destructive tumors of the jaw in clude (1) the root or alveolar abscess (2) its deriva tives the granuloma and root (5) tt (3) the dentigerous (5) tt (4) the adamantine epithelioma (5) the grant cell tumor (6) the fibroma and fibrosarcoma and (7) rarer lesions such as curcinoma arising from the gums and myxoma With the \text{\text{\$V\$}} at the central bone expanding tumors of the lower jaw can be differentiated from periosteal lesions and osteomyellits

The most frequent finding in a routine \(^1\) ray examination of the teeth is the presence of perapical areas of bone absorption about non vital teeth whose apices may be more or less eroded This characteristic lesion is usually called a root or alveolar abscess but if the tooth is extracted a granuloma or sometimes a root cyst will be found These lesions

can be identified with certainty

The dental root cyst is the most frequent lesson next to the granuloma. It arises from a granuloma in which epithehal strands have undergone cystic de generation. It slowly increases in size by desquama tono of the stratified squamous epithelium liming the cyst wall. When the roentgenogram shows a central bone destructive lesion 3, cm or more in diameter which involves neighboring tooth roots the diagnosis becomes difficult as such a lesion may be a growing dental root cyst a dentigerous cyst a central fibroma or sarrooma a giant cell tumor or even a squamous cell carcinoma originating from the mucous mem brane. At ypical lesions should be studied micro scopically to exclude early malignancy.

The next most frequent lesson the adamantme epitheloma is a true neoplasm arising from the en amel organ. Its most common site is in the neighbor hood of the molars an area which is a frequent site also of dentigerous cysts and giant cell tumors. The dentigerous cyst a cystic degeneration of the enamel organ occurs much less frequently than the root

cyst The dental root cyst and the dentigerous cyst are treated by excision with stripping of the epithe hal lining from the cyst wall

Next in frequency is the giant cell tumor. This lesion and the monocystic adamantinoma are at tacked with the chemical cautery. Poly cystic adamantinomata should be resected. Central fibromata are comparatively rare lesions. The bone cavity left by a central fibroma must be treated with the chemical and thermal cautery. SAMUEL BARD, W.D.

#### EYE

Thomas J W T Successful Grafting of the Cornea in Rabbits La cet 1931 ccvv 335

operation performed

The author divides the experiments reported in this article into six groups according to the type of

Type r Seven rabbits were used In the case of one animal the graft consisted of a horizontal strip of cornea with a conjunctival flap at each end In the cases of six animals the cornea was transplanted with a certain amount of conjunctiva. In four animals the graft united and healed but first cloudness and then ulceration finally developed and there was no useful vision.

Type 2 In seventeen experiments a central or paracentral graft was held in place by stitches passed through the margin of the graft and the margin of the adjacent cornea. Of sixteen grafts nine united seven failed to unite two became nebulous and seven were opaque. There was a definite tendency toward anterior synechia and stitches always damaged the graft especially if they produced tension across it.

Type 3 Seven rabbits were used The grafts were cut in a shelving manner and all were auto plastic Four became united One of the four became opaque and developed synechia and one became nebulous In all there was a tendency toward slight bulging due to intra ocular tension In one operation a minute pedicle of corneal tissue was

retained to see if the graft could not be kept trans parent. It was found that even a small ped cle of corneal tissue aided in revitalizing the graft

Type 4. Lighteen rabbits were used A transgular or quadrilateral graft taken from the margin of the cornea was united to the cornea by st tches and a wide indectomy was performed to prevent anterior synechia. Thirteen of the grafts became united. To show ed a clear area for about two-third so the graft and nine vero paque. The use of olive oil did not increase the risk of falure. Of the mine grafts in which five or fewer stitches were used four failed to unite whereas of the others in which six or more stitches were used only one faled to unite. Stitches are lable to produce a line of tension along the graft v hich is ery undesirable.

Type 5 Sixteen e periments were done grafts were fixed by cross stitching that is the sutures were inserted in the substance of the adjoin ing cornea passed over the graft on its anterior surface and inserted in the c rnea on the opposite side the ends being then tied together. One such st tch was used in three cases. In to of these the graft became displaced about the fifth day and in one case it margin failed to unite and it became opaque vith synechia. In thirteen case to stitches were passed at right angles to each other aeross the graft. In six of these the graft became united. The grafts were homoplastic. Oh e oil was used in every case Of the si graft which united one had a clear central area after three months but five became opaque

Type 6 All grafts were secured by cross statching with two sutures. In a g oup of ten rabh to the graft was eithe equal to or slightly larger than the gap In the cases of two of these ten rahb ts it as cut in a shelv ng manner. In five of the remaining eight it united and in three it became partly attached. Of the fve grafts which united one as opaque one had a small central area that vas practically clear one had central clear area nd the two others we e clear This group shows that cro s stitching is the best method of securing the graft In another group f rabhits the two g afts ere o tl ed ith a te phine measu g ne rly 5 mm and a gap in the cornea was p epared in the same way B th ere cut in a shel g manner a d both united One hecame opaque and the other nebulous I a th rd group of e per ments perfo med on two abbits the grafts were removed with the trephine and scissors. The trephine was / mm less in diameter than that used for the outlined gap. Both grafts became united but peither was clear. In a fourth group of rabb ts th rteen experiments were done. The seven grafts operated on by the best technique were all removed with sc ssors and smaller treph nes with less difference in their diameters cross stitching vas used and the grafts ere cut in the sh lying ma ner All seven g afts became united One was opaque one showed a small central area and five were The opaque graft had anter or transparent

synechia

LE 1E L McCo M D

EAR

Meltzer P E G adenigo s Synd ome Anatomical
Aspects A h Old y t l 03 x 1 87

It appears that anatomically Gridenig s 50 arome can be accounted for on the bysis of extension of infection shrough poliumatic cells or a diffuse of the control of the co

through its connections drainage of the apical cells From the relationship of the vessel and nerves Papile concluded that to confectious material produced in still or coming from the suppurating peritympanic cavity often stagnates in the hypotympanic caves and may pass through the carotico tympanic recess and may pass through the carotico tympanic and pericarotid bymphatics into the perineuteum of the adulcine nerve existent in sol ement of the cavernous membrane lined by cadothelium that surrounds the nerve and the carotical driery. He demonstrated this mode of transmiss on experimentally and confirmed the extradural or gin of the paralysis of the sixth nerve in this hyadrome.

basis of good drainage of the tympanum and

There is no que tion of the extreme irritability of the tr geminal nerve as compared with other nerves The distinction between neuralgia and neuritis is quantitative rather than qualitative. The pain: due chiefly to an inflammation or toxic in obsement of nerves and ganglia Invol ement of the gangl on was definitely ploved by Baldenweck Wiener called attention to the appearance of herpes along the branches of the fifth nerve as an 1 d cation of ganglion involvement in this syndrome Perkins as umed a gangkonic interference because fifty five of ninety five patients noticed pain in the di t hution of the fifth nerve and attributed it to the d seased p ocess going on at the tip It is unlikely howe er that the pain in this syndrome is always due to involvement of the ganglion 's it is gener ally accepted that painful impul es are carr ed along sympathet c ne es to peripheral nerves and localized t an area not cont guous to the part affected the pain may somet mes be e plained by the symp thetic connections with the fifth nerve in this region In other cases it may be due to increased pressure in the cells at the apex which gives ri e to a pain eaction localized deep in the orbit or temporo parietal regin It is not easy for the patie t to locals e deep pain in this region. In still other cases

the pain may be carried to adjacent sensory ganglia and transferred from the sensory filaments of the neuron primarily involved and even to those of the econdary neuron. Under such conditions the stimulus is carried in this neuronic pathway to the brain and is perceived as coming from the distribu tion area of the secondary neuron. This is reflex or reflected pain. When the ganglion connections with the nerves passing through the middle car are taken into consideration it seems evident that the theory of reflected pain may sometimes explain the pain in the Gradenigo syndrome The cause of referred pain is believed to be a lesion in the nerve trunk or in one of its branches. It must be borne in mind that the dura is supplied by branches from each division of the fifth nerve and that pain referred along these nerves may be of toxic origin or caused by other impulses arising in the middle car

On the basis of recent pathologico anatomical contributions it appears reasonable to assume that the Gradem, o syndrome may be due to (r) cells extending to the apex (paralabyrinthine subarcuate paratubal) ( ) the carotid canal (caroticoty mpanic canals canaliculus tympanici) as the result of erosion of the bone wall of the eustachian tube (3) the perineural and perivascular lymphatics of Papale (4) erosion of the tegmen tympani with extension forward and (5) the inferior and superior

petrosal sinus

#### NOSE AND SINUSES

TAMES C BRASWELL M D

Goldsmith P G The Treatment of Paramasal Suppuration Persisting After Operation Car a dian M Ass J 1931 TXIV 7

Sinus operations have so often been followed by failure that there is considerable scepticism regard ing the benefit to be derived from the surgical treat ment of sinus disease Persistence of the discharge after operation is not in itself an indication for more surgery Regulation of the patient's manner of living a change in climatic conditions and local treatment may allay the secretion in time

As a rule acute frontal sinus inflammation sub sides spontaneously but removal of the anterior end of the middle turbinate may be necessary to facilitate drainage If an external operation is indicated very thorough etbmoidal removal should be done first

A persi tent discharge from the sphenoidal sinus is due ordinarily to deficient drainage and aeration The author does not consider it safe to remove the sinus lining by instrumental means

A common cause of persistent postoperative antral discharge is the presence of unrecognized disease of the frontal and ethmoidal sinuses Another cause is fibrous blocking of the operative wound

In persistent ethmoidal discharge operation hy the external route may he necessary to remove all of

tbe cells

In conclusion the author says that care must be taken to avoid making the patient a nasal neuras thenic GEORGE R MCAULIFF M D

Hastings H Osteomyelitis Associated with Fron tal Sinusitis The Value of Preserving the Anterior Wall with the Attached Perlosteum A Report of Cases Arch Ololaryngol 1931 x111

The author reports two cases of osteomyelitis associated with frontal sinusitis in which the in flamed bone hecame healed without being treated He believes that in such cases there is a tendency to do too much surgery the result being a fulminating infection which often ends fatally If operation is necessary the acutely inflamed periosteum and bony wall should be left alone. In the first case reported a conservative operation was done. In the second the osteomyelitis subsided spontaneously

GEORGE R MCAULIFF M D

#### MOUTH

Santoro A Radium Therapy in Cancer of the Mouth (La radiumterapia del cancro della hocca) Radiol ned 1931 TVIII 115

The author reports seventeen cases of buccal can cer and one case of buccal leukoplakia which have been treated at the Institute of Medical Radiology of the University of Rome since June 1929 In two of the cases of cancer the lesion involved the upper lip in four the lower lip in five the cheek in four the tongue and in two the floor of the mouth In the case of leukoplakia the tongue was involved A cure was obtained in ten cases of cancer and in the case of leukoplakia the incidence of cure being therefore 61 per cent

The different parts of the buccal cavity are so closely united by continuity and lymphatic circula tion that the author constantly bears in mind their reciprocal relations in discussing the lesions of each part separately Separate consideration of the le sions is necessitated by the difference in the tech nique of irradiation of lesions occurring in different

sites

r Cancer of the hp Epithelioma of the upper lip is somewhat less frequent than epithelioma of the lower lip If operation is done in time the prognosis is in the main favorable and glandular metastases are infrequent. One of the two cases reviewed by the author was cured In the four cases of cancer of the lower lip all of which were cured the treat ment was limited to the surface. The lymphatics were not irradiated as they did not appear to be mfiltrated

2 Cancer of the cheek. The five cases in this group included four epitheliomata and one sarcoma A cure was obtained in one The author is convinced that in epithchioma of the cheek whatever the status of the case superficial irradiation is entirely useless although occasionally it is followed by temporary improvement Only the implantation of radium around the tumor offers a hope of cure

3 Cancer of the tongue This condition is one of the most serious malignant lesions of the mouth as it rapidly involves the entire tongue and is soon d sem nated in the gland Accordingly the lymphatics must be treated even who they are navisity enlarged The author uses the techanque of de Nab as irradiating the glandular regions and the iniqual lesion without operative interveolion. I at inium needles with wall 0 g mm thick and contain in groom 13 at 20 mgm of radium are inserted into the normal tissue around the tumor 1 g cm part of the normal tissue around the tumor 1 g cm part of the property of the pr

508

three were cured

4 Cancer of the floor of the mouth This lesson is frequent and may be treated successfully \(^1\) the either radium or the roentgen rays. Of the two cases reported oce as cured The author implants tubes containing \(^2\) mgm of radium around the lesson and irrad ates the lymphatic regions either decily or hy external irradiation of the buccal focus \(^1\) William Wilmetize \(^2\) PiD

Quick D Nelson P A Hagensen G D Duffy
J J and Others Special Clinic on Epithelioma
of the Lip 1m J C + 193 v 9

The authors state that biopsy and a Wassermann test of the blood are indicated in every case of per sistent ulcerating lesion of the lower I p. In discussing the differential d agno 15 of the more pronounced lip lesions they call attention especially to the chrone ioflammatory lesions many of which are presancerous

In caneer of the lp the histological structure of the lesion does not adi in the selection of the method of treatment to the same e tent as in cancer of the oral eavity proper. The e tensive hulky pap flary growth which may invol e the entire surface of the lower lip but shows only slight infiltration is a much less serious lesion than the small deeply infiltrating insignificant looking growth.

Epitheloma the most common malignant lesson of the lip is treated most satisfactorily by the sur face appl cation of heavily filtered radium on three sides of the gowth. While palpable metastatic in volvement of the glands of the neck is found only exceptionally reentgen irradiation through both sides of the neck is advisable as a precautionary measure.

In cases sho ng metastatic involvement of the cervical nodes dissection is indicated. The apparently uninvolved side should be treated by heavy e ternal irf diat oo and kept inder observation. The metast tic node with its capsule invaded by timor tissue which is regarded as inoperable should be treated by the implantation of filtered radoo Bilateral subma llary involvement is a different problem from upper and lower deep cervical in volvement. When dissection is undertaken in these

cases it should be complete

HORARD A MCKNIGHT M D

#### PHARYNX

Leshin N and Pearlman S J Are Tonsillar Recurrences Entirely Due to Faulty Operat ve Technique? A ch Oi l yng l 1931 xii 37

The authors call attention to extratonsillar tissues which often contain lymphoid tissue embedded in their layers and are frequently neglected in rout ne tonsillectomy Io 50 per cent of cases in which the place are well developed sites for possible future lymphoid hypert ophy are left even when the main tonsil mass is apparently remo ed completely Whenever the place are vell developed they should he removed separately. There is no method of tonsillectomy that insures positively against the recurrence of lymphoid tissue at the site of operation as the raw operative area is ep thel alized by the surrounding mucosa which with its tunica propria grows down into it and in its new site retains the ability to form lymphoid structures The occurrence of hypertrophy in some instances and its non ccurrence in others is explained by constitutional and individual factors as yet not known

JAMES C B ASWELL M D

#### NECK

Lewis W Hype thyroidism and Associat d Pati ology Am J M Sc 931 clxxx 65

Lew's described the autopsy find ngs in a series of the legal cases of hyperthy road in treated during the period from 1923 to 1920 with the channeterizes as the rod ne era of thy road disease. Three of the patients of earthern of the much hold edid after operation was showed climated and the state of t

Seven of the thyrod glands showed primary hyperplanan with is oflution of varying degree. The remaining flw were characte used by irregular foot of hyperplasia and degeneratic cor involutional changes and were regarded as showing endemic goter. Of of them presented multiple adenomatous foot which ere eocapsulated and undergoing secondary by

perplasia

The changes in the heart were essentially those of conordental card o ascular disease and were compatible with the ges of the patients. No direct deleterous effects of the hyperthyroidsm upon the heart were o ted but it was believed that the development and progress of puthological lesions from other sources ter accelerated by the increased work tachycard a and fylination. Thym colym

phatic hyperplasia was found in two cases in which death occurred from postoperative crisis

No significant anatomical changes were found in the spleen liver kidneys pancreas adrenals or ovaries Leo M Zimmerman M D

Mora J M and Greene E I Thyroidectomy for Thyrotoxicosis in Older People Report of 200 Cases After the Fiftieth Year Am J If Sc 1931 clxxi 74

Of 1 of o patients operated upon for toxic goiter 200 (18 8 per cent) were fifty years of age and older The oldest patient was seventy six years of age The average age was fifty six and six tenths years One hundred and forty five of the patients were females Primary hyperthyroidism was present in 133 (66 5 per cent) and secondary hyperthyroidism (toxic adenoma) in 67 (33 5 per cent) The duration of the gotter varied from one month to fifty years The average duration was eleven and sixty eight hundredths years Symptoms of hyperthyroidism were present for from two weeks to thirty two years The average duration of the symptoms of hyper thyroidism wastwenty three and two tenths months The average interval between the appearance of the goiter and the onset of symptoms was fourteen and five tenths years The outstanding symptoms were weight loss tachy cardia nervousness tremor weakness palpin tation and evophthalmos. The following cardiac manifestations were observed tachycardia in 73 per cent of the cases left heart enlargement in 42 5 per cent palpitation in 41 5 per cent dyspinces in 22 per cent assolic hlow at the apex in 175 per cent auricular fibrillation in 15 per cent and cardiac decompensation in 12 per cent. Of the 85 cases with left heart enlargement the enlargement persisted after operation in 5 in all of which the heart had been damaged. Of the 30 cases with auricular fibrillation the rhythm became normal after the operation in 27

The average hlood pressure readings were systolic foo diastolic 80 and pulse pressure 80. Evoph thalmos was present in 61 cases but disappeared in all hat 5 after the thyroidectomy. The average preoperative hasal metabolic rate was +41 6 and the average rate after operation —11 per cent. Only 4 patients were found to have metabolic rates above +15 per cent after operation and of these only 1 showed definite clinical evidences of hyperthyroid ism

Of the 7 deaths in the 1 of cases 6 were those of patients fifty years of age or older

LEO M ZIMMERMAN M D

### SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Delagenlere Y The Futility and Dangers of Lumbar Functure in Cranlal Fractures and in the Surgical Treatment of Gerebral Harmor rhages (D 1 til tet des d gers de l pint lomba e da si l act s du crà e et d t ment chrugical de hém rages & & bles) 1 h fr n b lg d d 1929 39 49

The first case reported was that of a man forty six years of age who had been knocked dos n by an automobile about three hours before he entered the hospital Lumbar puncture done soon after the accident withdrew clear fluid. After the lumbar puncture the pulse became more rapid and the pat ent was by ught to Delageniere. On the way he began to have trouble 1th hi speech and gradually lost consciousness. When he was first seen by Delagen cre he was in complete coma The diagnosis was cerebral compression prohably due to a hama toma of the m ddlc meninges. There was an almost horizontal fracture of the lover temporal portion Trephination revealed a mass of clots between the shull and the dura mater. The hamorrhage of the meninges was completely stopped by tamponing The pat cut did not regain consciousness

Delagenere is of the opinion that Jumbar pune ture which is the classial procedure in cases of cranial injuly should not be done. It is based on the supposit on that the finding of blood in the cerebrosp nall fluid confirms the presence of a cranial fracture. However exceptal control on a though out fracture may give rice to an effusion of blood and cranial fractures are associated with hamorthage.

only if the lura mater sunjured

The autho has never done lumbar puncture rou tinels I the cases of patents with coma fund lary signs a positive Bab nsh and Ortner sgn or a ve y slow of 1st puise after an injury the head should be shaved In neal ve very instance this simple inaccure will reveal a contissed zone a very small wound o simple ero into of the scalp. This region should be plip ted If a fracture is present and the pat ent is conscious severe prin will be epicined at a definite por II If the pat ent is come a zone of cerebral contusion will le found at this po nt

Luml ar puncture is absolutely usele s n deter mining the indications for operation and may be extrem by dangerous in cases of cereb al contusion or cran al fracture treated by a single lumbar puncture the mortality ranges from 41 to 70 per cent whereas in the cases t cated by the author it was only 16 fer cent although the injuries were very severe. The results of treatment by a sense of lum har punctures are even poorer than those in untreated caces. The motor sensors and mental sequelar are always more serious when operation i not done. The operation should be an extensive deep local external decompression. You nater ention is indicated only in cases of fracture limited to the base and without a lession of the centres.

The second case reported by the author was that of a man aged ffty seven years who dev lope l hemsplegia twenty four hours after a fall Palpat on revealed a depressible area in the ri ht parietal region where there was an almost effaced star shaped scar The patient claimed never to ba e had an accident or an operation The diagnoss was hemipleg a from fracture of the cranium and compression of the centers Operation disclosed an anteropo terior bne of fracture 9 cm long The bone at the edge of the fracture vas very thin Ventricular puncture revealed ventricular inundation. The fall had been caused by the hamorrhage liem plegia persisted and contractures of all of the limbs developed Three months later the cond tion was reported as a left hemipleg a with parapleg a of the right leg P CE.

Orton S T A Clinical and Patl of gleaf Study of Two Ca es of Obstruction of the Aqueduct of Sylvius B Il he olog all I V 1 k 193

The first case reported by the author was that of a slort stout white g il seventeen years of a ga who came of a fam by exhibiting endocrine d sorders and other anomalies of development. The pat ent as considered an average cild until she as fourteen years old. At that time she left school because of inability to learn. For two years she g ned we ght rapidly but the size of her head and feet remained the same. She had an excessive appetite vith a strong desire for sweets and gave a history of polyur a She had never menstruated.

At the time she entered the hospital she had an unsteady gat with a wide foot bate and presented definites gins of pyramidal tract involvement which were somewhat more marked on the left is de than on the night. The basal metabolism was—10. The findings of the signs rolerance tests were vith n normal limits. Eye examinations showed a papil teckma of a doupters on the right and 5 doupters on the actions or vit and fields could be found actions or vit and fields could be found

Ro nigen ray examinations disclosed evidence of intereased intracramal pressure. The sells shot ed marked distortion. The anterior clino diprocesses were pressed upward, the floor was depressed and the dorsum was almo it destroyed. Ventr culograms sho red markedly dilated lateral ventr cles which

were apparently not deformed nor displaced in any localized area

Autops) revealed a percanalicular gliosis and gran ular ependy mits of the aqueduct of Sylvius and fourth ventricle which had caused almost complete closure of the aqueduct and consequent extreme in ternal hydrocephalus with rupture and the formation of a pial cyst compression of the left ventricular wall of the vertims collapse of the roof of the fourth ventricle and secondary obstruction to the ventricular outflow which was probably almost complete.

The second case was that of a bright Italian boy nine years of age who entered the hospital with a history of nocturia and enuresis for three months a rapid gain in weight for two months a decrease in vision and occasional headaches Examination of the eyes disclosed a bilateral papilloedema of 2 diopters and a striking contraction of the visual fields with a suggestion of binasal hemianopsia Roentgen ray examination showed evidence of in creased intracranial pressure and a rather large sella turcica. Air injected by lumbar puncture did not enter the ventricles Because of the rapidly ad vancing optic atrophy operation was undertaken and because of the suggestive pituitary syndrome and the \ ray findings in the region of the sella a frontal approach was selected In spite of two ex plorations no tumor mass was discovered

Autopsy disclosed an astrocytoma fibrolare be neath the aqueduct of Sylvius which had grown into the lumen and caused an obstructive hydrocephalus

The author believes that in the chincal interpretation of cases of chronic ghal overgrowths a history of mental deterioration and apathy may be of value. Enlargement of the head from infancy may indicate a reduced factor of safety in ventricular drainage and may serve as a sign of importance in the differentiation of obstruction of the aqueduct due to tumors of the posterior fossa and suprasellar growths. Orton believes that there may he an in herent tendency toward a heavy ghal framework which may predispose to ghal overgrowths.

In the reported case of astrocytoma no specific morphological character was found which was not found also to some degree in the reactive ghosis. The diagnosis was based as much on topographical as on morphological factors

ROBERT ZOLLINGER M D

Lindau A Sargent Sir P Collins E T Riddoch G and Others Discussion on Vascular Tu mors of the Brain and Spinal Cord Proc Roy Soc Med Lond 1931 xxiv 363

Livau reviews the nature of the syndrome which has been given his name. He calls attention to the usual cerchellar location of the tumor its accompanying cyst its characteristic histological appearance the frequent multiplicity of lesions in the nervous system the occasionally associated harman globlastoms of the retina (von Hippel's disease) and the occasional hereditary character of the disease. He stresses the importance of Cushing

and Bailey s division of vascular tumors of the ner vous system into malformations and true neoplasms

SARGENT cites personal experiences with vascular tumors in the brain and spinal cord. He calls at tention to the failure of treatment in cases of vascular malformations and the brilliant results obtained by surgery in cases of brampollastoma.

COLLINS said that both vascular malformations and true neoplasms may occur also in the eye and cited cases from the literature and his own ex perience LEOM DAYDOFF MD

Meagher R and Elsenhardt L Intracranial Carcinomatous Metastases Ann Surg 1931 XCIU 132

Meagher and Eisenhardt call attention to 57 intracranial metastatic tumors which were found in Cushing a series of 1 850 verified intracranial tumors Forty four were carenomata. One fourth of these were primary in the breast the patients with intracranial metastases from the treast was fifty one years. The interval between the onset of breast symptoms and brain symptoms ranged from three months to twelve years and averaged three and one half years. The course after the appearance of infracranial symptoms was very rapid the average length of time before death being six months

Two cases are cited to show the difficulties which are sometimes encountered in the diagnosis. One was that of a woman who entered the hospital complaining of severe headache which had begun less than two years after the removal of a breast car cinoma and who gave a history of consulsive seizures twelve years before. The X-ray diagnosis of meningeal tumor was confirmed at operation. At autopsy no metastases to the brain were found

The second case was that of a woman with a marked family and personal history of tuberculosis who had had a cancer of the breast removed and three years later entered the hospital with cerebellar symptoms. The diagnosis at operation was solitary tubercle hut the histological picture was that of carcinoma. Leo M DAYMOFF M D

Bailey P and Bucy P C The Origin and Nature of Meningeal Tumors Am J Cancer 1931 xv 15

The authors discuss the origin and nature of meningeal tumors with case reports and photo micrographs of nine types of such tumors

They discuss first the mesenchymal type hecause microscopically certain meningeal tumors hear a close resemblance to the mesenchyme which precedes the formation of the meninges. The loose arrangement of the cells the delicate strands of reticulin and the practical absence of collagen and elastin are quite typical.

The second tumor discussed is the neoplasm of the angiohlastic type previously described by Bailey Cushing and Eisenhardt In this tumor the vascular channels are merely open spaces in the tissue Most of them are lined by neoplastic cells Occasionally the cells lin ng the vascular space are flattened to

form an endothelium

The meningeal tumor of the meningothehomatous type reproduces so exactly the structure of the localized thickenings of the a achinodal membrane especially the so called packnowing granulations that its origin from the arachnoid is accepted cushing has shown that it arises usually in localities whe c the arachnoidal granulations are most numero S By some it has been called a neuro op the all tumor. By others its cells have been considered fib oblasts. The cells are a milar to those I ning the substrachnoid and subdural spaces which We d called mesothel al cells.

The psammonatou men ngeal tumors differ from the preced\_g type only in the tendency of the neoplastic cells to form whorle which subsequently become calcified. The neoplastic cells may so m no intercellular substance over large areas yet the whorl often c at an seticular who ch when undergoing hyaline transformation may stain feebly as collagen or elastin.

Tumors of the osteoblastic type in which there is bone formation constitute evidence of the connective tissue nature of the cells of the arachnoidal membra e. The bone in these tumors is always of the membranous type no catilage be g found

F broblasts a e fare in the o'din y meningeal tumor Honver the authors report a tumor in which the cells had predominantly the structure of file bollasts. This tumor which gree rather rap dily was comparable in structure to fibroblastic tumors seen elsewhe e in the body and seemed not to metastatic. Roentgen i rad ation transformed it into a e v ben gn type of g owth decreased the rate of cellular d vision i ere ed the product on of collagen, and caused the formation of numerous gia t cells.

The a tho s c te also a case in hich the tumor was classed of the melanobl stictype Inchildren the m st common source of such tumors i the etime b t n this case the retir we en omman The autho s state that a sufficient numbe of c ses are not on r co d to prove that melanoblastomata may are prim rily from the leptomenings.

Meni ge I tumors of a sarcomation type similar in structure to those of the melanoblastic type but not pigmented occas onally occur in the leptomen ing. They sometimes in sea scuffs around the cereb al blo divessels ind arely as a large mass but as a ulea widely spread in the leptomen ges. They has ebeen called peritheliom ta sarcomatosis and diffuse endothel omatosis of the meninges.

The a thors have been able to find records of about sativ case of int acra all lipomata. The meningeal tumor of the lipomatous type is most common on the upper surface of the corpus callosum of the sty case cited the tumor was in this region in seventeen.

Sever 1 ca es of rather extensive gli matous for mations in the 1 ptomeninges are mentioned. These can he e plained by supposing an in asion of the leptomentages by neur glail tissue during emby one life or by undifferentiated neoplastic tissue which afterward hecomes diffe entiated in the abno mail situation to form heterotopic malformations. They cannot be regarded as evidence of a neuro epithelial ong no fthe leptomentinges.

The authors c nclude from their study that whatever the origin of meningeal turn rs the neo plasms are of the nature of connective tissue and a enot gluomatous Rob ar ZOLLL of M D

El berg C A The Meninge I Fib obl stomata (Durat End theliomata Meningi m ta Arachnoid F brobl stomata) The O light Gross Stuctu e Blood Supply and Effects upon the Brain Principle of Technique for Their Remo al Bill \( \) I f oll t \( \) \( \) \( \)

Follo ing a reve of the various theories that have been advanced with regard to the origin of meningeal fibroblastomata the author presents a theory based on studies of mening all tumors occur right in the spinal membranes the e act relations of

hich to the membranes can often be noted He de cripes the various situ tions in which spinal meningeal fib oblastomata unattached to nerve roots may be d see ered. As some of these tumors are found outside I the dura or adherent to the inner so face of the dura without any demandant strable connect on with the areahnoid it is diffeult

t expla n the origin from the arachno d If due cons deration is given to the difference in the relations hetween spin I meningeal tumors a d the three membranes it is evident that the or g n of the arachnoid cells from which meni geal turn s a ise must be sought for at an early stage of the r development before the hl stemic conde sations of hich a e to form dura arachno d and pia have been co cluded. It is no sible that at this early stage cells a high should be ome gr uped with the structures that are to form the arachnod may lo e the r proper aff I tion and algam at and re main ass ciated with cells destined to de elop into pia mater or dura By the as mption El berg e plans why a tumo structure thich reprod ces the structure of the arachnoid may be found in situat one eotirely unconnected with that membrane He reminds us th t d splaced cell rests are prone in adult life to multiply excess vely to form tumors which reproduce the histological structure of the or ginal tissue This fact suggests that so called dural endotheliomata are deri ed f om misplaced mesenchymal cell rests and may orig nate from any of the tb ee membranes Elsbe g agrees w th Pen field that these tumors are properly called menin geal fibroblastoma

Elsberg studied the gross structure blo ds ppl) and mechanic I effects upon the brain in fifty, ca es of intrac amal meningeal fibroblastoma. On the h sis of the r gross form he divide these tumos into three groups (1) hard tumors (2) soft t mors and (3) tumors combining features of both bard and soft tumors

The hard tumors are flat or globod usually lobulated and surrounded by a tough capsule on the surface of which are numerous blood vessels It is the author's impression that the parasagittal and the tentorial growths are regularly of a very firm consistency definitely fibrous and almost al ways surrounded by a well developed capsule

The soft tumors are better supplied with blood vessels than the hard tumors and have a very thin limiting capsule. They are irregular. Small out growths from them may penetrate the fissures between the convolutions. The soft meningeal fibroblastomata are found most often at a distance from the large venous sinuses. They are usually so soft and fragile that small bits of tumor may be left at operation and become a source of recurrence

In the tumors of the third group firm well encapsulated nodules are connected with each other by soft poorly encapsulated tumor tissue

The blood supply of intractanial meningeal fibroblastomat is derived chiefly from vessels which enter by way of the attached part of the dura There are relatively few vessels which extend to the growth from the pia grachnoid in the tumor bed

By dividing the dura around the edge of its at tachment to the neoplasm most of the blood supply to the growth may be shut off and removal of the tumor may be made easier

The author advises that the blood of every patient operated upon for tumor of the brain be typed and cross checked so that if a blood transfusion becomes

necessary it can be given without loss of time. The electrosurgical apparatus is a valuable aid in the removal of these tumors. Bleeding may be controlled by the use of small bits of muscle obtained from operations in general surgery. The muscle can be preserved for several days by placing it in a

sterilized box kept at a freezing temperature. The exposure of these tumors must be liberal for complete or satisfactory enucleation. In cases of parassigntal growths in which part of the dura of the opposite side must be exposed the author removes the overlying bone with rongeur forceps. This causes less loss of blood than enlarging the

opening by forming a bone flap across the midline. The central part of these tumors should be removed first with the electric kinfe or loop. The shell can then be removed more easily and the bleeding better controlled. In the removal of tumors attached to the fals or superior longitudinal sinus the shell of the tumor farthest away from the midline should be removed last. Removal of these tumors may require several operations.

ROBERT ZOLLINGER M D

Morris L Trigeminal Neuralgia The Anatomy of the Hartel Technique La cet 1931 cctv

As sensory root avulsion hy operation requires a highly specialized technique the author advocates

the use of the Hartel method of injecting the region of the gasserian ganglion. He cites anatomical and experimental evidence which shows that the route taken by the needle is free from danger and the foramen ovale can be located with accuracy and safety if its relations to both the infratemporal sur face of the sphenoid bone and the external pterygoid plate are known

He believes that by a high horizontal Hartel route not the ganglion but its sensory root is reached by the alcohol the results of the injection being thereby rendered permanent

LEO M DAVIDORF M D

#### SPINAL CORD AND ITS COVERINGS

Schroeder A Anatomical and Clinical Study of Two Cases of Extramedullary Tumor (Cons. derac ones anatomico clinicas sobre algunos casos de neoformaçones e tramedulare) An fac de med Unit de Youleuder 1930 x v 750

The first case reported was that of a woman fifty four years of age. About two vears before she was seen by the author the patient began to have pain in the hips which was worse at night than in the day time. Soon thereafter she had pain in the legs and feet and formication and loss of sensibility in the soles of the feet. Walking became impossible with out the use of a cane. A physician found a fibroma impacted in the pelvis which compressed the sacral plevus rectum and scratc nerve. After operation for the removal of this tumor the condition of the feet improved under treatment with massage and electricity and walking became easier.

When the author first saw the patient in May ro28 the movements of her legs and feet were very limited the movements of the hips limited to a less degree her muscles weak and the patellar reflexes very active Ankle clonus and a positive Babinski reaction were present on both sides Tactile sensa tion was decreased below the fourth lumbar verte bra Sensation of position was abolished in the feet and toes Electrical examination showed slight hyperexcitability of the nerves and muscles but no reaction of degeneration Roentgen examination of the spinal column was negative Intraspinal lipiodol stopped at the level of the first lumbar vertebra and its position was unchanged at the end of twenty four hours The clinical symptoms and course sug gested a benign tumor causing pressure on the cord and the lipiodol examination confirmed the diag nosis While it seemed questionable whether opera tion would relieve the symptoms of compression of the cord that had persisted for four years operation was performed It disclosed a tumor at the level of the first lumbar vertebra The tumor was removed It proved to be a fibro epithelioma There was little improvement in the patient's condition

The second case was that of a patient twenty eight years of age who showed clinical signs of tumor at the level of the sixth dorsal vertebra. Lipiodol was arrested at the level of the seventh dorsal vertebra. Operation disclosed a very unusual form of

ascu ar tumo at this k, el Removal of the neo plasm as not followed by any g est change in the patient s condition AUDREY GOSS MOR AN M D

#### PERIPHERAL NERVES

Hannal J A Regener t on of Periot ral Ne es An Exp rimental Study Ld b el II J out

An experimental t dy of regeneration of peripheral nerves was carried out by the author on rat bits a fe v veeks old. The scritic perve on each side vas exposed in the thigh an I a small incision m de n it in a d rection transverse to its long avis After this procedure tile cut ends of the nerve hi ers hid not etract f om each other so fa as if the whole nerve trunk h d been so ered the high was not paralyzed and the animal suffered no apparent in convence When the an mal vas killed one of the nerves was fixed and subsequently treated for silver mpregnati n hile the other i s u ed for general h tolog cal r ut ne When the nerves vere removed fo my st gat; n they we e t ed hy fine silk thread to f ames nade or gl ss rods and placed imme lately in formel ammonium b omide solution. By this method di to t on v as i c ea ed and better iongi tudinal s ct ons of the nerve were obtained. The Gross Bielscho ski method of impregnation by s lver was used a a rule. For histological examina tion the nerve w s treated a th same vay but subsequently emhedd d n paraffin. The undings in thi experiment sh that vben a nerve bundle is e ered degene att e or regressive changes occur in the myelin sheat! nd axon of the nerve fiber in both the c nt ala d the districtump On the other hand the n i olemmal cells un le go progressive changes and at the s te of the spury both the proximal and the dist I port one of the se ered fiber show necro biot c change du di ectly to the trauma Whereas the e es e hanges extend centrally to a variable but hort d stance they ccu if oughout the whole tent if the portion pe iphe al to the section

The auth r discusses the cha ges n the myelin the cell f Schi a n phagocytosis nd the cl nges o curring in the distal ni pre imal portion of the

a is cylinder A f w hour fter men on of the nerve the myelin ret act from the s d f th tube and separates first

int) large and lat 1 to m lie dr plets hich ventually disappear. The fagment ton of the myeln begins multan ou ly long the shole len th of the d stal portion of the sam fbe removal is completed more rap dly in the smalle than n the larger fbers D sintegration of the myel n begins b fore any h stol gical changes can be iemonstrated in the axon. It seems probable that inder normal conditions the axis cylinder has a trophic influence on the myel n and when the former is severed from its cell of origin it can no longer evert its influence and the myelin is hoken up by a di estive action of enzymes derived from the cells of Schwann

About atteen hours after section of the abers the cells of Schv ann or neurolemmal cell begin to rass into a vegetative phase. The nuclei enlarge and become hyperchromatic and the perinuclear cyt plasm-increases in amount. As the miclin and ax s cylinder disappear they are more or less replaced by

a tuhe of cytoplasm in which are numerous nuclei The protoplasm of some of these tules show a longitud nal striation i h ch is one of the facto s grams, rise to the belief that the new ax s cylinders are differentiate I from the cytoplasm of Schwann's cells Many of the prot plastic tubes of the pe ripl eral stump become inne vated by new axis cylinders while a certain number become hollow and are eventually hounded by the connective to sue of the endoneurium

I few days after section of the ner e phagocytic cells are present in the nerve fibers of the peripheral stump where they ingest parti les of disintegrating myelin and fragments of the axis cyl n ler The author believes a few of these may be p lymorphonu cle r leucocytes but that the majority are histocytes He bases this conclusion on the fact that the majority of the phagocytic cells observed are too large for polymo phonuclear leucocytes and in the central nervous system tile chief cells concerne l'in the phagocy tosis of fragments of dead tissue are de rived from fixed cells of the part. He believes that in the perigheral stump of the severed nerve most of the phagocytic cells are derived fr m c lis in the endoneurium and some of them from the cells of Schu ann

It the site of the less in ce tain of the ax sev! inders may be intensely impregnated with sil er. They are s auous in outline but egul rin liameter and d not present structural alterat ons characters tie of de generat on and di ntegration. These are known as preserved libers. They are axis cyl inders killed trained; tely by trauma. Their conservation is due probably to some action of the eyudates especially the blood in the wound. The less the nerve is traumatized when it is sectioned the fever the number i preser ed fibe a

The structu al exp ess on of the agonal changes p esented by the porti n of the avi cyl n ler di tal to its point of severance is varied. In many instances the end toward the leson devel p an o al or py form stelling and n the case of meduliated bers th s may c ntain a thick ple u of neu ofibr l Along the course I the fiber fusiform s vell ngs co amonly occu About two day after section the neurofil r is underg granular disintegration and th axis cylinder undergoes f agmentation Finally com plete Iss by enzyme act on results The utho briefly di cusses the function of the neurofibril He ag ees vith Schroeder that neurofibrils d not form the conducting element of the nervous system but are me ely a frame; ork for the nerve cell

The di tance from the wound to s hich necrosi of the ax s cvl nders cours va ies with the individual fh rs The smalle the ax s cylinder the shorter the nec used p rts n The ea ly phases of regeneration

present a picture which differs according to the dis tance at which the living portion is situated from the wound In the case of the fine fibers the hving portion develops a terminal swelling and grows toward the exudate Because of the obstacles which it encounters in its growth the fiber may break up into a number of branches each of which ends in a swelling These new fibers are found in the exudate as early as twenty four hours after the operation

Similarly the living portion of the large med ullated fibers develops a terminal swelling. About twenty four hours after the operation this gives rise to fine branches and thereafter reverts to the normal size of the axis cylinder The new fibers grow toward the wound at the periphery of the tube between the neurolemmal sheath and the detritus of myelin and fragments of the necrosed old axis cylinder The new fibers branch around and between the disintegrating masses within the tube and the various other obstacles to growth which are present in the wound such as blood clot droplets of fat cells which have migrated into the exudate displaced fat cells and muscle fibers. It has been computed that in adult animals only one of six or seven of the sprouts formed within the central portion reach the penpheral stump even under the best conditions In young animals the number is larger. In the author's senes the new fibers reached the pempheral stump in six or seven days after hemisection of the nerve trunk The number of fibers reaching the distal portion of the severed nerve and the time at which they do so depends upon various factors Chief among these is the distance of the ends of the severed nerve from each other and the nature and amount of the various obstructions present in the intervening space Caral estimated that the rate of growth along the penpheral part of the severed nerve trunk is ten times as fast as the rate of growth in the scar

The author believes that the myelin sheath does not begin to be formed until the axis cylinder passes from the phase of growth into the phase of functional activity New cells of Schwann and myelin sheaths occur in relation not only to the new fibers which have entered the old tube in the pe ripheral stump but also to those which have grown extratubally In the process of regeneration of peripheral nerves the law of Marenesco doubtless Function is a necessary condition for the trophism of the neurons and nerve paths A cell or fiber that does not function sooner or later dis ROBERT ZOLLINGER M D appears

MISCELLANEOUS

Foerster O The Surgical Treatment of Neuro genic Contractures Si g Gy ec & Obst 1931 ln 360

A neurogenic contracture is one in which fixation is brought about by contraction of a muscle or a muscle group as the result of abnormal innervation The author discusses the more common factors causing this condition

Contractures caused by pathological irritation of peripheral motor nerve fibers are due to traumatic nerve lesions in the presence of latent tetany Irritation of a single nerve by the traumatic process becomes effective only if there is a latent tetanic condition Under such circumstances the excitabil its of the traumatized nerve as well as that of other nerves to electrical and mechanical stimuli is in creased The contracture disappears promptly when the scar tissue surrounding the nerve or the foreign hody embedded in the nerve is removed

Contractures produced by pathological irritation of afferent peripheral nerve fibers are common They develop following the division of a cutaneous nerve and the formation of a neuroma at the central stump or when the nerve becomes embedded in scar tissue Pain is a constant symptom These contractures are produced in such a way that the injured nerve is relaxed and the irritation is thus reduced The reflex origin of all such contractures can be demonstrated by injecting novocain proximal to the lesion Permanent relief has been obtained in the majority of the cases only by avulsion of the injured nerve

Reflex contractures due to pathological irritation of afferent nerve fibers occur also in traumatic lesions of mixed nerve trunks. The surgical procedure in these cases is either excision of the neuroma followed by suture if the nerve is divided or in less severe cases in which the motor fibers of the nerve are damaged only slightly if at all by liberation of the fascicles of the nerve trunk (endoneural neurolusis)

Contracture following pyramidal tract lesions are reflex in nature. They are nothing but an in creased muscular reflex response to stretch (stretch reflex) Because of the abnormal reflex activity of the spinal cord the limbs are often brought into abnormal positions and then fixed in these positions by the stretch reflex

There are three ways to relieve the increased response of the muscle to stretch

1 Operations on the muscles and tendons (a) complete cutting of the muscle or tendon (per missible only if the muscle is dispensable) lengthening of the tendon of the spastic muscle and (c) transplantation of one point of insertion of the muscle to a point closer to the other point of in sertion

2 Total or subtotal de efferentation of the spastic muscle by total or subtotal resection of its motor nerve branches

3 De afferentation of the spastic muscle by resection of the posterior spinal roots

In spastic hemiplegia the best procedure to over come the spastic contracture of the calf muscles is lengthening of the Achilles tendon To overcome the supmation which the foot undergoes if flexed the author resects the motor branches of the poste rior tihial muscle or lengthens the tendon of this muscle hehind the internal malleolus. He also splits the tendon of the anterior tibial muscle into halves longitudually and inserts one ball into the tendon of the persons tertius. To prevent contract on of the fixed the fixed with occurs when the foot comes in contact with the ground the best procedure is total subcutaneous tenotomy of the tendon of the fixors of the toes just promisal to the point where they reach the test. To overcome spassic contract turn of the quadriceps the best procedure is part all reserving of the crural nerve just below the inguind lidd. Spassic contractive of the adductors of the section of the crural nerve just below the inguind procedure of the section of the sharest times usually found in infantile hemiplegia is corrected by lengthening the tendons of these muckes.

In spatial contracture of the paralyzed upper extremity in pyram dal tract h implegat the results of surgeal treatment are not so good as those in the leg. In the upper extremity spastic contracture of the addictors i corrected by it ection of some of the motor branches of the pectoralis major and the motor nerve of the latissimus and it resumpar To overcome spasticity of the internal rotators of the rm the majority of the ner es of the subscanularis

are needed. For contracture of the flexors of the forearm from one third to one half of the mus culo utaness nerve is resected. For contracture of the pronators of the hand the motor branches of the promator teres are resected. Where for contracture of the promator teres are resected while for contracture.

of the servors of the wrist the tendous of the servor carps radials and of the servor carps whars are cut and inserted into the tendous of the extensors of the writ. The correction of contracture of the stervor of the stervor of the servor of the servor and the servor poll cus longus may be partially rest ted. For contracture of the adductor of the thumb tendous of six tendons is the best procedule.

For the rehef of paraplegia with general zed con tracture posterior root resection is advisable. How far voluntary motifity can be restored depends upon the number of innervating fibers of the cortico spinal system vinch are I reserved. Spast c para

pleg a may be similarly treated

In the treatment of congent all spastic conditions proper diagnoss and selection must be stressed. Poot resection will relieve spast city due to pyram idal tract lesions. But so d no avail in that due to extrapyramidal lesions. Moreover the child must have sufficient intelligence to co-operate in a systematic regimen of exerces after operation. I a trents who are subject to epileptic seizures should not be operated upon by root resection.

Torticolls is caused by a cramp of the contralateral sternocleidomastonia and the psolateral neck muscles. To relieve this condition the contralateral accessory and the homolateral upper four spin all roots are cut. Dwid Jur saxro WD.

# SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Lee B J and Pack G T Giant Intracanalicular Myxoma of the Breast 1nn Surg 1931 xcm 250

Giant intracanalicular my toma of the hreast the so called cystosarcoma phyllodes mammas of Muel ler was an uncommon tumor even a hundred years ago hut is much less frequent now hecause the precursory film adenomata of the hreast are recognized and removed

This article is hased on 4 such tumors studied in the Breast Department of the Memorial Hispital New York during the past twelve years and ins

collected from the literature

At least 25 terms have been used to designate this tumor. The authors favor the term giant intra

canalicular myxoma of the hreast

Grossly the tumor tends to fall apart hecause of its enormous clefts and polypoid masses. Opening of the clefts discloses communicating cysts from which tightly packed polypoid masses can be lifted out These intracystic polypoid masses have been described as papillary elephantiasis be cone shaped nodular or sessile. Between them and the cyst wall there may he only a thin layer of straw colored fluid The capsule of the tumor may he highly vascular thin and transparent The stroma is derived from the subepithelial connective tissue and is usually myxomatous The myxomatous changes are more pronounced within the polyps than in other interstitial tissues of the tumor. The tumor cells are often radially arranged around the blood vessels The firm portions of the stroma are com posed of fusiform cells resembling those of sarcoma tous tissue Inflammatory changes are often found in the tumors. Hyalin changes occur diffusely and calcareous deposits and pigment accumulation may he discovered in the stroma of the neoplasm. The ducts of the tumor are dilated and tortunus

The origin of these tumors is disputed Snme he lieve that the neoplasms have their primary anlagen in the epithelium and others that the marked pro-liferation of the pericanalucular connective tissue is

more important

In the 100 cases reviewed the average age of the patients was forty four and six tenths years and the average known duration of the disease six and seven tenths years. Therefore the average age of onset was thirty seven and eight tenths years. Three of the patients were males. A history of trauma was given in thirteen cases. The authors helieve that the metamorphosis of fibro adenama into cystosacroma phyllodes is stimulated most frequently by repeated hirths and lactations. The average mother in the cases reviewed had 4 children

The 3 clinical features which distinguish the giant intracanalicular myxoma of the hreast are the presence of a precursory tumor and the rapid growth and the unusual size of the myxoma. In the cases reviewed only 4 of the patients stated that pain was an initial symptom. The general health remains good. Cachevia does not occur unless ulceration infection and harmorrhage alter the local condition.

The tumor is usually bulky freely movable and encapsulated and contains regions of fluctuation and resistance. There is no retraction of the implied and no avillary lymph nodes can be palpated. The weight of ro tumors averaged 7 of In In the his turies of 47 of the cases reviewed definite mention was made of the presence of a precursory tumor. In 26 cases the rate of growth was very rapid. In 38 the tumor grew slowly for a long time and then exhibited a sudden exacerhation of growth. In the others growth occurred at a moderate rate or was slow.

The prognosis is good Of or cases in which the outcome is shown a recurrence developed in only 6. The tumor will recur if it is incompletely removed In all cases of cystosarcoma of considerable size it is advisable to do a complete amputation of the hreast including the fascia over the pectoral muscles.

ALTON OCHSVER M D

Martindale L The Treatment of Cancer of the Breast Lancet 1931 CCXX 29

The author helieves that the results of surgical operation in carcinoma of the hreast can he im proved by adequate postoperative radiotherapy. She states that the operation for carcinoma of the hreast has probably reached its final development whereas radiotherapy is still in its early stages.

She urges early operation while the tumor is still localized to the hreast with radical removal of the breast fascia pectoral muscle or muscles fat and glands \(^1\) ray therapy should he hegun not more than from three to seven weeks after the operation. In all advanced cases three or four needles of radium should he placed along the third fourth fifth and sixth intercostal spaces to destroy malginant cells in the internal mammary group of lymph glands.

For imperable cases radium and \ ray treat ment are indicated. The production of an early menupause by irradiation is not practiced by the author

The success of treatment depends more upon the type of the case when it is first treated and the time between the operation and radiotherapy than on the type of the growth Marked radiosensitivity is no criterion of the ultimate ease of cure

EARL O LATIMER M.D.

Pf hler G E nd Parry L D Roentgen Th rapy In C reinoma of the Breast 1 S g 193

This article is based on 077 cases of carcinoma of the breast v high v ere treated in the period from 1002 to 1927 Attention is called to the fact that any stat tical study of irradiation which is made today must include the results of a varying and develop ng technique. Moreo er a direct comparison of irradiation statistics with surgical statistics is difficult because ery few primary cases of c remoma. of the breast have been referred for irradiation treat ment and recurrent carcinoma hich was the lesion present in a large number of the cases reviewed is not included in the usual surgical stati t cs

The authors have found grading of the tumors according to the degree of mal gnancy shown by routine microscopic sections of no aid in the de

termin tion of the prognosis

Slightly o er t per cent of the cases reviewed ere those of males. In 76 per cent the first evidence of the condition was a lump or pain. The average durat on of the symptoms before operation or irra d atton was sixteen and two tenths months. Only 60 per cent of the patients rece ved treatment with n twelve months after the first evidence of the disease and only to per cent received it within one month

Four hundred and nineteen of the patients were known to have a recu rence. Of these 64 per cent devel ped the recurrence with n a year and 30 (7 pe cent) developed it more than five years after operation Follo ing r currence there was an a er age delay of six and six tenths months before irradia

tion was begun

Of the ent re series of 977 cases recovery for a pe od of the vears resulted in 50 per cent and rec very for five years in 36 per cent The authors heli ve that with increasing knowledge of radio the apy much better results may be obtained. They regard post p rat ve irradiat on as of definite value and believe that in the early cases without avillary gla d nvol ement a five year recovery should be obt ned n ver 87 per cent In operable cases with axilla y gland volv ment they expect five year re o e y n 57 per cent The la gest group of case n the sees re sewed were the se of recurrent and m ta t ti cancer In these the inc dence of five year recovery vas 8 5 per cent v ben modern m thod ver used Of the 67 cases of primary nop r ble c cinoma three ye r recovery was ob tained n 43 per cent and five year recovery in 25 per ent Of 30 early cases w thout audlary gland involvement n v h ch operat n v as contra ind cated irrad t n esulted in five year recovery in FRAN B B RY M D 8s per cent

Ln Mand Feld JR M tast es to the Skeleton Brain nd Spinal Cord f om Cancer f tie B east and ti Eff t of Radi the apy 93 78

One hundred and sixty eight cases of care noma of the breast with metastases to ar ous parts of the

body were studied from the time of the di covery of the tumor until the patient's death Skeletal metastases proved by roentgen e amination or at autop y occurred in 81 (48 per cent) brain metas tases in 15 per cent and spinal cord invol ement in 8 7 per cent Of the 85 cases with metastases to the skeleton and central nervous system the condition was verified by histological e amination in 67 In 32 a postmortem examination was made Sixty cases were graded according to the h tological evidence of malignancy into 3 groups those of Grade I being the least mal grant and those of Grade 3 the most malignant

The average interval bety een the discovery of the tumor and the onset of skeletal metastasis was forty six and five tenths months in the cases of G ade 1 twenty nine and o e tenth months in those of Grade and ten months in those of Grade 3 The survi al period after the discovery of the tumor vas fifty and t o tenths months in the cases of Grade r twenty three and five tenths months in those of Grade 2 and seventeen and three tenths months in those of Grade 3 Age apparently had no effect upon the survival period. In most of the cases the condition

occurred in the fifth decade of life

The chinical evidences of skeletal metastases vere pain and localized tenderne's o er the bone in vol ed Pain as the earliest symptom in 75 per cent of the cases The interval between the onset of pain and the appea ance of definite roentgen evidence of skeletal metastasis varied from a few weeks to a

Of the 45 cases of metastasi occurring in the pre terminal stage of the di ease the skeleton was the primary localization in 82 per cent. Howe er the metastases rem med I mited to the skeleton in only 16 per cent Mentioned in order of decreasing fre quency of involvement the parts of the skeleton mo t frequently involved by metastases were the lumbosacral sp e femur pel 15 d real sp ne skull ribs scapula and humerus Pathological fracture was a late man festat on and occur ed in 26 per cent

Irradiation ith the \ rays and radium as of value in the c ntrol of the pain. It caused a diminu t on and at times a temporary regress on of the clinical and \ ray signs of skeletal metastases Clinic I imp ement began from the ty four to forty eight h urs after the f rst treatment and lasted

for f om a fe weeks to three yea s

Cl nical's gas suggest ag metastases to the central nervous system occurred in 21 per cent of the 168 cases and ere usually a terminal manifestation. In more than half of these case there vere associated metastases in the skull and in all of the cases of spinal cord involvement there ere metastases in the TR NA B BERRY M D corre ponding vertebras

iner B F Tl Re ults of Te tment of Canc rofth Br t 1 S g 03 C 269

Surgeons and radiolog sts have come to cons der cancer of the b east as o e of the cond tions in v h ch it is most difficult to determine the prognosis. After a period of from one to ten years dissemination of the original tumor along the second third and fourth intercostal spaces near the sternum mediastinal and pleural involvement or metastasis to the bones is often found.

Schreiner is inclined to believe that the word cure as applied to malignant disease should be

replaced by the words clinically well

Considerable confusion exists as to the interpretation of the results of treatment. For clarity therefore Schreiner divides the 480 cases he reviews into 283 cases of primary carcinoma and 197 cases of postoperative recurrent carcinoma. He then divides the cases of primary tumor into 3 groups. Group i those of localized cancer. Group 2 those with in volvement of the skin and avillary lymphatics and Group 3 those with bidespread metastases. The cases of recurrent carcinoma he divides into 2 groups. Group 1 those of local recurrence and Group 2 those with disseminated metastases.

Of the 83 patients treated for primary cancer 45, (16 per cent) have been clinically well for five years or longer These include 30 (88 per cent) of the 52 with primary tumors of Group 1 who were treated by the Meyer tadical operation and irradiation 4 (21 per cent) of the 19 with primary tumors of Group 2 who were treated by irradiation alone 10 (19 per cent) of the 53 with primary tumors of Group 2 who were treated by operation and irradiation and 1 (12 per cent) of the 79 with primary tumors of Group 2 who were treated by irradiation alone None of the patients with primary tumors in Group 3 or recurrent tumors of Groups 1 or 2 who were treated by irradiation alone None of the patients with primary tumors in Group 3 or recurrent tumors of Groups 1 or 2 who were treated by irradiation alone has remained clinically well for five years

Schreiner is convinced that irradiation is of dis tinct value to retard the growth of the cancer relieve the pain and prolong life

ALTON OCRSNER M D

#### TRACHER LUNGS AND PLEURA

Jacobaeus H C and Westermark N A Further Study of Massive Collapse of the Lung Acta rad ol 1930 x1 547

The authors bave observed collapse of the lungs in the following conditions

- I Hæmoptysis Massive collapse of the lung occurred in four of twenty five cases seen in the course of three years. In these four cases there were extensive hæmorrhages and a short bistory.
- 2 Recurrent bronchitis Acute collapse of the lungs occurred as an independent condition in two cases of recurrent bronchitis and resembled post operative collapse
- 3 Bronchostenosis and bronchiectasis of un known origin Chronic collapse occurred with only slight signs and symptoms in a case in which these conditions were found
- 4 Bronchiectasis Collapse of the lung occurred in three cases of bronchiectasis The bronchial

dilatations became aggravated in a short time and the condition showed signs of progression. The authors attribute the changes to infection and the markedly increased negative intrapleural pressure associated with the pulmonary collapse which in two cases reached -30 and -40 cm of water. They noted pronounced broncho amphoric breathing over the collapsed areas. They explain this phenomenon by assuming that certain larger bronch were open while distal bronchial branches were to a large extent occluded by inflammatory changes. In support of this theory they cite pathologico anatomical observations and the findings of roentgenological and hronchoscopic examinations.

5 Cbronic pulmonary tuberculosis without hemotysis. Collapse of the lung occurred in five cases of this type. Contrary to the findings of others the observations in these cases seemed to indicate a deleterious effect of the collapse on the cavities. The authors believe that the markedly increased negative pressure was an important factor.

6 Lung tumor Partial lobar collap e occurred in five cases Whether the tumors were in an upper or a lower lohe the free evudate if any was present extended from a medial point ahove to a lateral point below The authors attribute the changes to the change in the pressure produced by the collapse of the lung.

Gianotti M and Ceruti G The Action of Phren ico Exeresis on the Respiratory Exchange (Azione della frencoe eresi sul nicambio re pira tono) Archi tal d chi 1930 vx ii 743

The authors briefly review the literature on the changes following phrenicotomy phrenico excresis and pneumothorax and report the results of a series of experiments on dogs with regard to the changes in the respiratory metabolism following phrenico excresis

Three weeks after unilateral or hilateral phrenico eccresis there was a diminution in the amount of pulmonary ventilation the consumption of oxygen and the energy requirement. This was most marked when the operation was bilateral. Studies immediately after the phrenico everesis demonstrated that the changes appeared within a few hours. I neumo thorax was followed by an increase in metabolism in the first few hours. Petre A Rosi M D.

Freedman E The Roentgenological Appearance of Interlobar and Mediastinal Encapsulated Effusion in the Thorax Radiology 1931 781 14

Encapsulated effusions may be divided according to their etiology into five groups (1) those due to parapheumonic or metapheumonic blood stream in fection (3) those due to tuberculous infection (4) those due to unfection from chest wounds and (5) those due to endate incompetence

Interiobar effusions are characterized by sharply defined band shaped wedge shaped or circular shadows in the region of the interiobar septa. They must be differentiated from lobar and marginal pneumon a localized and well-encumseribed caseous consolidations and bronchial care noma. In the presence of pneumonia the only roentgenological sign of an interlobar effusion s bulging of the intel 1 ar

fissure seen in the lateral vie ;

Mediastinal pleural effusions are characterized by band shaped wedge shaped or trangular shado is parallel with the ve tebral column or the cardiac silhouette. They must be differentiated from pe i cardial effusions aortic aneurisms paravertebral absects es and mediastinal fumors. In the diagnosis of both interlobar and mediastinal pleural effusions bronchography, is a vafuable aid.

WILBUR BAILEY M.D.

#### GESOPHAGUS AND MEDIASTINUM

Vi milan A S D ea es of the Œsoplagus

By the use of the \(^{1} can an \(^{1}\) a heavy barrum paste its possible \(^{1}\) localize casophageal lessons \(^{1}\) usburge the pattern of the obstruction and observe and study the function of the zoophagus. The accuracy and absolute safety of this procedure make it the method of choice. In the past seven years our patients have been thus evanined at the Massa chusetts \(^{1}\) year and \(^{1}\) are mixing its feet in the cau of \(^{1}\) difficulty in smalloring \(^{1}\) \(^{1}\) \(^{1}\) a zess with positive \(^{1}\) findings the le on was in the upper third of the oxophagus in over one half in the middle third in two tenths and in the love third in three tenths

Of 384 cases in which a fo eign body was sus pe ted a fo e gn body v as found in 17 The objects clud d chicken b ne fish hones open safety pins a var ety of small le d toss and p eces of wood and glass The effo t f the patient to push a foreign body along by a vallo ing sol d food is seldom suc c ssful and only in reases the trauma. Water does no ha m and may wash the foreign body down but if it is is t d o esophahoscopic removal a neces there s an unfortunate tendency among 5817 physicians to pa s a bouge o bri tle prohe to dis I dge fo eign bodies in the esophagus. The re uit of the p ocedure is often a perforation f the esoph agus a fal e passage thr ugh the med a tinum into pidly fatal mediastin t s the abd m n with Afte perforation \r v examination re eal a m rked increase in the velling f the s ft tissues and the resence of air or gas in the pe icesophageal paces In the cases eview d there i ere a number of pe fo t ons due to safety pins

Of \$34 c ses of intrinsic les ons of the cosophagus cancer was re jon ible in 45 per ent. In the major ty of case of can e the initial complaint was obstruction of short duration yet on fi st examinat on the les on was so e tensive that surgical remo alwainnosshile and cast room was use ill adviced.

In 15 per cent of the cases re leved the lesion was a non malignant stricture d e to a w b of mucous membrane. Such webs may be congental or may develop afte the healing of an ulceration or a trau

matism of the museus. They invariably occur at the level of the episternal notch and are usually very delicate. They require close evanimation for their discovery with the fluoroscope and may be missed in hen they are ruptured by the passage of an essophagoscope with an obturator. The disphagiant is severe. Is the lesion occurs so high there is no distantion of the essophagus above it and food is aptoo erflow into the fraches causing very severe fits of coughing. Eating therefore becomes a dreaded orderal. After dislatation, the symptoms disappear.

Strictures resulting from frauma or ulceration cause a stenosis involving from z to 3 cm of the osophagus. On \ray examination they usually appear smooth in contour. On account of scar trissue formation in the ors phageal wall and around

it they do not dilate readily

Acute spasm at the entrance of the enophagus was found in the ten of the cases reviewed. Such spasms usually ecur in persons in the fifth or suth decade of life. The subjects are not hysterical and give no pr vious hi tory of dysphags. Inability to swallow e. in water comes on suddenly and basts fo two or three days function their gradually returning to normal. Fluoroscopic examination shows complete obstruction at the entrance of the cre phagus into the trachea. There is no evidence of paralisis of the muscles of derfuttion.

In none of the cases reviewed were syphilite or

tuberculou le 100 observed
Ulcers occur as a rule in the lower part of the
œsophagu and are usually associated with marked

spasim Cardiospasm is a hlanket term applied to a number of non malignant lesions producing obstruction at the lwer end of the oscophagus. Such le ons we e found in so per cent of the hengin cases reviewed. The chincal history is one of oscophagual obstruction for many years often startin in the third decade of life \(^1\) ay examination shows a didated and elongated to ophagus which is in analytic totated to the right and it yisted at the lower end

Tumo s causing obstruction by external pres ure ve e found in t venty cases. In the majority the site of the tumor was the thyr id. No intrinsic be

nign tumors vere disco ered

Burns causing stim, like stenoies ere found in thisty-one cases. In the major ty they were dicolored at the level of the acotte arch where there is a normal constrict in of the croopbagus in the form of a definite indentation of the anterior wall

Parals 1 of the muscles of deglution has a characterist picture. An account of the patient's inability to f rm the bolus on the tongue the barnon spull or et the sel unisted of remaining on the dorsum. The pat ent lifts his head up to allow the ba unit to d op by gra it; instead of g ing it a push with h's tongue Instead of a motion p ture one sees a till the pyriform sinuses are filled the cospoliques is closed and some of the barnum in variably excepts into the tratchea.

Paralysis of the esophagus itself or of the dia phragm causing obstruction was not noted in the cases reviewed

Pouches of the asophagus of the two common types were observed Pulsion diverticula occur on the posterior wall just below the cricoid level at the anatomically weak point. Traction diverticula are found in the middle thr

MAURICE MEYERS M D

Guisez J Several Cases of Crincer of the Œsopha gus Treated Successfully with Radium (Ilu sieurs cas de cancers de loesophage traité a ec succ spar la rad un thérapie) Bull 1 m Soc d chirirg e s de Par 1930 vui 1751.

The author reports twenty four cases of cancer of the casophagus which were treated successfully with radium. In all there was complete dysphagia Fourteen of the patients are still well after four or five years. In the ten cases treated in 1928. 1929 and the beginning of 1930 all disturbance of deglution has disappeared. In several patients who were gastrostomized the gastric opening definitely closed Radium treatment is efficacious only when the epithelioma has not passed the limits of the casophageal wall. Very marked adenopathy and recurrent nerve paralysis are contra indications.

The lesion is rarely discovered at its beginning Particularly in the aged cancer of the desphagus is a painless cancer of slow progress which has little tendency to invade other tissues and does not be come generalized for a long time. In some forms it has practically no effect on the general condution

Before treatment is undertaken the diagnosis should be as exact as possible. Esophagoscopy is the best means of diagnosis. A budding or ulcerous lesion on an infiltrated immobile wall which bleeds at the least contact with the cotton wrapped probe is always cancer. The most favorable cases for radium therapy are those of cancer of the middle third of the cosphagus, which is a basal cell epithelioma.

In the first treatments the radium is put in place under the control of the esophagoscope. Then the stenotic area being dilated the sound carrying the radium slips down very easily so that the radium can

be placed exactly opposite the tumor

The author uses a non metallic sound in which are placed the Dommic tubes with a platinum sheath of 1 mm. A sufficient number must be used to irradiate the tumor throughout its extent. Treat ment is given for two or as hours every day for at least fifteen days with an occasional interval of one or two days of rest if necessary. It is neither dan gerous nor painful. In the first treatments, there may be excessive salivation and some nausea but on the whole the sound is well tolerated. A sensation of burning after a few treatments can be easily soothed with alkaline solutions.

Even when the treatment is only palliative it gives the patient the illusion of cure because he again becomes able to swallow semiliquid food

#### MISCELLANEOUS

Bittner K. The Surgical Treatment of Chest In juries (De chirura che Behandlung der Brust er letzungen) Grögså at 1030 1 480

The author reviewed 41, cases of chest injuries which were treated at the St. Roche Hospital. He compared war and civil gunshot injuries of the chest and found that those of peace times are definitely more beingn but the complications and mortality are very similar. The prognosis in thoracci injuries is rather poor although at the outset it does not seem so unfavorable. There are usually 3 outstand ing features.

The profound depression of the patient which gives the impression that he is dying. This is similar to that observed in patients with concussion of the brain. However, it disappears in a few hours.

2 Associated involvement of the abdomen This is frequent but is seldom mentioned in the literature. The disease picture simulates that of an abdominal catastrophe. The abdomen is retracted and rigid and the passage of faces and flatus ceases. Abdominal injury can be ruled out only by constant observation. The manifestations improve in a short time.

3 A higher mortality in the first twenty four hours than later. Blunt trauma to the chest may produce shock which masks the injuries that are present. Sometimes reflex cardiac death occurs. These cases are called concussions of the chest.

Similar symptoms to which may be added hemor rhage from the mucous membranes of the head and neck are caused by compression of the thorax Contusion of the chest may also produce these symptoms but the picture may be complicated by injury to the thoracic organs such as rupture of the heart or lung. Pneumonia is a frequent complication while lung codema and dry pleurisy are less common Complications occur frequently.

Injury to the chest wall brings all of the thoracic organs into causal relationship. Rib fracture are considered minor injuries because the numerous complications which in 20 per cent of the ca es cause death are not taken into account. It is cus tomary to immobilize such fractures with adhesive strips The author considers this procedure incor rect because the pain and restricted breathing may result in inadequate pulmonary ventilation and pneumonia In his opinion it is better to inject novocain between the fracture fragments to relieve the pain and assure good ventilation of the lungs In hæmorrhage when there is no immediate danger an expectant attitude is proper. This is true also in subcutaneous emphysema if the condition does not spread too rapidly. When it spreads quickly as pirating needles should be inserted to evacuate the air The author believes abdominal symptoms are caused by the sympathetic nerves

Bittner has seen 1 6 cases of chest injury from stab and knife wounds. In a large number of them the wound was due to attempted suicide. The treat ment depended on whether the heart was injured or

PACE

not If a cardiac injury was present it was issually fatal part cularly if the coronary arteries were damaged. If not the pat ent could possibly be asseed by surgery. Surgical intervent on was necessary if the internal mammary artery was injured. The wound was a posed and the vessel ligated Needle injuries required no intervention complications were rare. In harmorithing the frestment was conservant a constiguing in the use of ree hag call the control of the control o

pu at the pentionitis Gunshot injuries are associated with the greatest dangers and most frequent complications and carry a mortality of so per cent. The injuried person falls immediately and loses consciousness. Three distinct layers of injury were found the immediately damaged its use the indirect contusion and the molecula concusson. Foreign bod, infection and harmorrhage may appear fiter a time. The dangers of gunshot injuries of the chest are increased by

pneumothorax and aneurism formation. Pneumo tho ax and its sequels are the most frequent complications of these injuries. If the patient survives quelte. In such cases the patient survives quelte. In such cases the patient was treated sur geally as long as there was hope of saving him. In all other cases he was treated conservatively with absolute bed rest sedatuses morphine to etc. He was put up on pillows and alcohol and crygen were daminaste ed. If complications developed they were treated by the methods mentioned. If suppura tion occurred rip resection was done

tion occurred 12b resection was done.

In judging Jun hot injur es it is important to know whether or not the miss leas it lin the thorax. The mortality of perforating injuries is double that of penetrating injuries. In determinations of disability for insurance it is important to decide whether the injury reduces the resistance of the lung tissue and therefore if not the cause it is at least a factor predi posing to tuberculous infect on This possibility cannot be disregarded. Therefore treatment depends upon the careful evaluation of the case. Conservative results are generally satisfactory. Vox Lossiwate 2c.

# SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Meleney F L Hursey H D and Jern II Z.
Peritonits I The Correlation of the Bac
teriology of the Peritoneul Exudate and the
Clinical Course of the Disease in 106 Cases of
Peritonits Arch Surg 1931 viii I

The great majority of patients with peritonits who come to a general hospital have lesions of the appendix If the inflammation is limited in extent the peritoneal exudate yields very few organisms on smear or culture

If the appendix has not perforated the disease is usurlly not fatal whether the appendix is gangre nous or simply inflamed the course is mild and the patient is able to return to his home after about two weeks

If the appendix has perforated the inflammation is frequently extensive the pertinneal erudate is profuse and yields a great number of hacteria of several different species. The disease is frequently fatal the course is stormy, and the patient who survives must stay in the hospital about twice as long as if perforation had not occurred.

In gangrene of the appendix examination of the peritoneal fluid yields no evidence that the spore forming anaerohic hacteria either pathogenic or non pathogenic are particularly active. Of 30 cases in which perforation of the appendix had taken place clostridium welchii was found in only 12 (40 per cent) whereas hacilius coli was found in all Of o cases of gangrene of the appendix without per foration clostridium welchii was found in none Of 6 fatal cases of perforative appendicitis clostridium welchu was found in only 2 (33 per cent) its in cidence in this group heing lower than its incidence in the whole group of cases of perforative appendi citis If the cases of perforative appendicitis are included with those of other gangrenous lesions of the appendix it is found that the anaerobes were present in practically the same percentage as in the cases without gangrene

Perforative Tesions of the small intestine prompt ly caused severe symptoms. There was usually extensive tenderness over the abdomen without distention. Total white blood cell counts were frequently low and showed a relatively high percent age of polymorphonuclears. In perforations of the upper intestinal tract organisms were not usually seen on smear and in early cases no growth was obtained on culture. Perforation of the lower part of the small intestine was invariably fatal. After such a perforation the pertoneal evudate was usually profuse and turbid showed many organisms and yielded a bacterial growth. In non perforative lessons of the small intestine the severe symptoms.

were due as a rule to intestinal obstruction with or without gangrene of the intestine Bacteria were usually found on culture of the peritoneal evudate hut smears indicated that they were not numerous and in most of the cases recovery resulted

In cases of perforative lesions of the large in testine the symptoms developed more slowly and although these lesions occurred in older persons and more bacteria were found in both the smears and the cultures including clostridium welchin which was present invariably the large majority of the patients recovered

Perforative lesions of the gall hladder were always fatal. Bile irritation seems to be a potent factor. Several investigators have reported that even sterile hile will cause peritonitis which may he followed by the appearance of organisms in the peritoneal evudate.

In three fifths of the cases coming to the hospital within twenty four hours after the onset of symp toms the lesion was local the symptoms were mild the peritoneal exudate was not profuse and organ isms were rarely seen in smears or obtained in cul tures Diffuse peritoneal inflammation was rarely found in cases with symptoms of less than twelve hours duration but was usual in cases in which the symptoms had been present longer. In cases of diffuse peritoritis the condition was more severe the peritoneal fluid was profuse and usually many organisms were seen in smears and obtained on cul Complications were frequent and a third of ture the patients died When abscesses had formed the history was usually of long duration although the symptoms were only moderately severe and there was much thick fluid which hy both smears and cul tures was found to contain many organisms mortality was just half that of the cases of diffuse peritonitis The 3 most common organisms namely the hacillus coli the green producing streptococcus and the clostridium welchii were more numerous in the cases of diffuse peritonitis than in those of local peritonitis and most numerous in the cases with abscess Nevertheless the mortality was lower in the cases with abscess than in those of diffuse peritonitis

Smears of the pentoneal fluid made at the time of operation and compared with cultures seemed to be of prognostic importance. In every instance in which smears showed no organisms and cultures yielded no growth and in every instance in which fewer species appeared in cultures than were seen in the smears recovery resulted. These observations therefore warrant a favorable prognosis. When more kinds of organisms appeared on culture than were seen in the smears more than one fifth of the patients died. When all of the forms seen in the smears.

smears gre out the mo tality vas still higher death resulting in more than one fourth of the cases. The last two conditions therefore warrant a guarded p ognosis

When cases of peritoritis vere divided into gr ups according to the number of bacteria appearing in the peritoneal e udate it vas found that as cases > elded no organ sms 1 yielded 1 14 yielded 2 15 ) elded 3 19 vielded 4 9 vielded 5 and 3 vielded 6 species. In the great majority of the cases in which there as no growth in cultures the disease was I m ted to the focus of nfection When viable organisms were present there was usu lly an acute Certain symptoms and signs diffuse peritonitis shot ed a steady nerease in severity cor esponding to the number of species present. Others ere more severe in the goup with from 1 to 3 species than in the group with from 4 to 6 Th s suggests that cer ta n species are nert r that protagonistic effects are produced by one bacterial species on another in the production of certain symptoms and antagonistic effects n the p oduction of other symptoms

There were 3 outstanding bacte in species in this secries of peritoneal exudates. Non hæmoly tie baillus col w s present in 87 per cent of the cases in which bacteria were found green producing strepto occus in 40 per cent and elostridium welchu in 38

Peritonitis was usually a polymierobic disease. In

per cent

only 1r of the 7 cases that yielded g owth was a sugle species found Therefore it was virtually im possible to e aluate the fole played by each one. Any grouping to brig out a single factor was nullified by the presence of many common factors. The disease was no see when me than one organ sin was pre ent. All of the e idence seems to show that clostridium eichni and the other spore forming annerobes as well as the ana robic streptococci and diphtheroid bacilli do n't appreciably increase the se erity of the disease or the chance of a f tal out come.

In the cases of acute local peritoritis there ere no de the Of the cases of diffuse peritoritis a third were fatal and f the eases of abscess a s vih were fatal

Every perfo atton of the tleum was fatal but only 1 of 5 f the pe lorat ons of the colon Only x pat ent with a single infecting organism died. In the fatal case the organism was a hamolytic strep tococcus.

When f om 4 to 6 speces of organi ms were present the mo t lity was almost identical with that

in the case with from 1 to 3 species
A thi d of the pat ents were under twenty years of

age but none of this group died. Of 30 bet een twenty and so ty years of age only 3 died. After the fortieth year the mortal ty increased with age. Variations in the outcome n patients of the same.

Variations in the outcome in patients of the same age is no seemed to have practically ident cal path ological and bacteriological conditions indicate that individual resistance to per toncal infection is important HOWARD A McKnight MD

Rewbridge A G Tie Etiol gical Rôle of Gas
Fo ming Bacilli in Experiment 1 Bile Pe itoni
tis S g G<sub>3</sub> c & Ob t 193 1 2 5

The author investigated the cause of death in bile perton us by carrying out experiments in dogs is a peritomits identical it is bile peritomits a produced by the bacillus which he concludes that bile periton us in dogs is caused by infection. He believes that the bac lius elchin invades the peritonical cavity as a result of perimeab lity produced by the local act on of the bile salts in the peritonical cavity.

M. Hear x Plana. M. D.

#### GASTRO INTESTINAL TRACT

Comfort M. W. Submucous Lipom in of th Gastr. Int stinal Tract. A Report of Tw. nty Eight Cases. S. g. Gy. & Ob. r. 193 [1 1]

L pomata of the ga tro intestinal tract are di ided anatomically into 2 man groups the submicious and the subserous A small number are both submicious and subserous. The submicious variety are

more common than the subserous

The author reports from the records of the Majo China 3 submuous lipomata of the colon which produced symptoms and \(^1\) ere removed surg cally and 25 which did n 1 produce symptoms and \(^2\) ere found incidentally at operat on or autopsy. In addition they abstract the reports of 68 such tumo a reported in the let rure. These tum is together with 85 reported by Stetten and by White and Judd make a total of 181. O e hundred and fourteen f the 185 caused symptoms.

Submeous lipomat form one of the more important subgroups of ben in gastro intest nal noo plasms. Clinically they rank in frequency with myomata. They are less common than adenomatous poly ps and more common than tumors of other types in the small and large bo el. In the stomach they are anoarenth, among the least common of ben ze.

neoplasms

They seem to occur most frequently in the stomach the duodenum the lover part of the fleum the execum and the ascendin colon and twice as commonly in the large 2 to time than the small intestine

They may be single or multiple sessile or pedual culated and may occur in association with I pomata of the subserous variety. They are equally common

in males and females

The symptoms are those of irregularity in the format of perstalls obstruction of the stomach especially at the pylorus and of the small and large bowel intus usception and ulce at on incident I to the crulatory changes caused by pressure and intussuscept on or external traum

Before operation it is usually possible to determine only the presence of a benign tumor. A definite diagnos is of I poma can be made only when the neoplism can be seen through the proctosoper has polapsed externally or when blops; can be dine in the processor is the polapsed externally or when blops; can be dine in the processor is the polapsed externally or when blops; can be did not not be polapsed.

a lipoma of the rectum or attached to the apex of an area of intussusception which prolapses into the rectum

Martini T and Curutchet R E Leiasthenia of the Stomach First Results of its Treatment by Gastrotonometry (La leastena del estómago su tratamento por la gastrotonometría nuestros primeros resultados) Senana méd 1930 vyvin

Martin and Curutchet having made daily use of gastrotonometry for two years have collected forty, four cases (some with hypotonia others with true gastric aton) and all complicated by second or third grade dolicho\_astry) in which the course of treatment was completed. They conclude from the results obtained in these cases that gastrotonometry is the most effective procedure for the treatment of primary atony of the stomach. They say bvery doctor should be familiar with its technique and should apply it whenever he is dealing with a gastric atony which is resistant to ordinary treatment.

In 90 per cent of the cases of atony particularly atony of the stomach the condition is a reflex of a general leasthema an asthema of the smooth muscle fibers Gastrotonometry acts not only to relieve the symptoms but also to stimulate the smooth musculature. It constitutes a new method of diagnosis prognosis and treatment of alterations of the motor function of the stomach.

Martini and Curutchet have studied directly under Gaultier of Paris and use Gaultier's gastro tonometry technique and instrumentation with slight modifications. The therapeutic effects of the method are produced by a mechanical or physical action and by a chemical action The mechanical action consists of massage of the gastric wall by the insufflation and subsequent exsufflation of gas This energizes the smooth muscle fibers thereby causing an increase in gastric peristole and peristalsis. The chemical action is evident in cases of simple atony and even in those of vertical dilatation or enlarge ment of the stomach the oxygen apparently acting as a specific chemical excitant of the musculature In cases of gastric hypertonia gastralgia and cer tain dyspepsias the insufflated carbon dioxide acts in the same way as gaseous potions The mechanical effect however seems to be of chief importance because similar results are obtained by using air alone although not so quickly as with pure oxygen The course of treatment (lasting from two to three months) may be given by the amhulatory or com-bined method It is entirely harmless. Its only contra indications are ulcerous and neoplastic le

In all of the cases of gastric atony treated by the authors there was a rapid and continuous increase in the appetite which coincided with the increase in gastric tonicity. The patients were cured or markedly benefited although they did not gain weight Anorexa disappeared in 70 per cent of the cases reviewed. This method obyvates the use of bandages

sions of the stomach

which are so troublesome to the patient. It failed in only three (about 7 per cent) of the cases reviewed In two cases in which the results were doubtful most of the disturbances were corrected. One of the patients who was not benefited by the treatment presented the Elsner syndrome and another was suffering from congenital Clenard Lane disease with a pseudo ulcerous syndrome. In some of the cases recovery was confirmed eight twelve and fourteen mouths after termination of the treatment.

MARGUERITE P SLOAN

Renander A Roentgenologically Studied Cases of Gastric Tuberculosis (Enige roentgenologisch beob chtete Faelle von Magentuberkulose) 1cta radtol 030 %1 636

Though pulmonary tuberculosis and tuberculosis of the intestine are very frequent tuberculosis of the stomach is very rare. Local tuberculosis of the stomach is usually of the ulcerous or the hyper trophic type. Poncet has described also an acute inflammatory form. As a rule the localization is in the canalis ventriculis. Complications in the form of hiemorrhages and perforations are rare. The symptoms are not characteristic. The prognosis is serious.

The author has seen three cases of clinically primary tuberculosis of the stomach in two of them however roentgen examination disclosed old completely healed pulmonary foc. In one case the process was localized in the body of the stomach and in two cases in the canalis ventriculis. In two cases the diagnosis was verified by microscopic examination. In one case a mesenteric gland was found. The symptoms were not characteristic. In two cases resection was done and in one case gastro enterostomy.

Eusterman G B Gastric Syphilis Observations
Based on Ninety Three Cases J 4m 11 1ss
1931 VCV1 73

Most of the patients whose cases are reviewed by the author were between the second and fourth decades of life The average age was about thirty six years The gastric disturbances were usually marked and progressive with an average duration of two years The symptoms depended in large measure on the site and extent of the lesion and the complica tions Achlorhydria or subacidity especially the former was the rule A palpable mass retention nausea anorevia, anæmia cachevia gross bæmor rhage and occult bleeding were infrequent in con trast to their incidence in carcinoma a disease in which the laboratory data usually simulate those of gastric syphilis The roentgenological manifesta tions although not pathognomonic were those of carcumscribed or diffuse involvement of the gastric wall rather than of intrusion into the lumen by a growth which produced contraction of a variable degree stiffening a decrease of mobility and absence of peristals As a rule the pylorus was gaping less frequently it was obstructed. The diagnosis was

often inferential becau e of the frequent absence of a palpable mass corresponding to the position of a filling defect and because of the disproport on be tween the patient's general condition and the extent of the gastic involvement as revealed by ment

genoscopic examination

Four of the ninety, three pat ents observed at the Mayo Chine were adults vith stigmata of heredo syphilis. One pat ent was a negro. Twenty eight of the ninety three patients were subjected to sur goal eviporation and to operation of one hand or another. Resected speamens were obtained in four teen clim cally authentic or probable cases. Biopsy pecumens e erail of the most satisfactory vere obtained in four the control of the pat ents vere traced for at least it to wear a nal some as long as see enteen vears. The patients who were not operated on were found to be I ving after an ave age period of four vea s and ele en months.

Sixty five of the ninet; three patients were men and twenty eight were nomen. The a es of 88 per cent of the total numbe ranged bets een to enty nine and forty eight yea s About half of the total number we e in the third decade of life Almost to o thirds stated that epigastrie pain or di comfort had come on immediately aft reating. An increase in the solidity or amount of food or fluids can ed a proports nate increase in the discomfort. A feature common to all ea es was the progre sively se e e nature of the elin cal course. By the time they came under observation the majo it; of the patients we e in a state of partial or advanced tarvation and we taking only liquid nour shment and in reduced amounts. In the ad anced stage the syndrome vas usually that of a stomach greatly reduced in capac ity such as the stomach seen in linit's plastica

The second group of cases was class hed as of the pseudo cance type In this type the sumptoms were of gradual onset. At the outset the dis omfort as mild and began bout half an hou after meals Relief fr m food o lk les as in onstant incom

plete o absent

The th rd group of ases was cla stifed as 1 the utler type. In this good the pain food ease sequence seen nutice was outstanding throughout the sequence was not as egular or complete as in the duoration of the complaint although the sequence was not as egular or complete as in the duoration alter Pylo ic lessons with or vithout retention and the occasional more or cumse the desion elsewhere in the stomach usually ease set to

There were only five trust vorthy astances of bl dung in the scien In it vo of these there was define evidence of associated bepa lobatum and in the othe is undoubtedly spih fitte changes in the liver had taken place as its the use In only four teen cases was anomia present. This was of the secondary, type and usually was at marked Pella gra deeleoped in two cases neither of the patients

this type of subjecti e complaint

gra developed in two cases neither of the patients re ided in the pellagrous belt. In twenty to cases there was gross retention of gastric contents usually the result of obstruction from prepyloric involvement but occasionally due to hourglass contract ons in the middle or upper third of the stom ach. A palpatie mass was present in 20 per cent and a definite sense of resistance was found over the molved area in most of the cases in which the pattents ere thin and dehotated. Achievated and the contract of the cases in which the pattents ere thin and dehotated.

present in 85 per cent of the eases

Multiple gastine lesions on the bases of diffuse proliferative infiltration or of a nodulo ulcerative lesi in
correspond in to the nodulo ulcerative lesi in
correspond in to the nodulo ulcerative lesi in
common manifestal ons of gastine sphil is. The
quest on arises as to how often a solitary sphilitic
ulcer may manifest itself and may be visualized on
rontigenological examination in the manner in which
simple chronic gastine ulcer is manifested and visu
alized. Two of the four cases of tube culous ulcera
tion of the stome the vere diagnosed as ulce. In
eight of the cases in which rontigenological examinat
tion was made ulcer was diagnosed and in seve al
instances the niche was specifically mentioned

Because of the protean character of syphilis one must at all times maintan a suspicious attitude toward the n sublity of its presence. On the basis of surg cally demonstrated histolo ically confirmed lesions and clinically cured pat ents who have been traced for a conside able time Eusterman has for mulated a clinical syndrome Gastric resection if the patient survives the o deal will do no harm if the nature of the pathological process is recogn zed and adequate anti syphilis treatment is also insti tuted but the number of times this extreme pro cedure is advocated will be in inverse proportion to the d agnostic acumen and the therapeutic resources of the physician or surgeon. Euste man believes that when the dis ase is strongly suspected surgical intervention is unjustifiable even in the presence of consistent retention of the gastric contents. It is the policy at the Clinic to err on the safe side i ben in doubt since in a number of cases of proved gastric syphilis the response to t eatment s as slower than usinal

Emery E S Jr and Monroe R T Peptie Ulcer The Diagnostic Value of the Roentgen Ray Before and Afte T eatment A ! J R nig !

The authors state that of 510 cases of peptic ulter which ere examined with the X-ray, the roentgen diagnosis was found to be correct in 93 per cent. If wever after the presence of an ulcer has been established other questions must be answered before intelligent treatment can be under taken. Io seeking a solut on of these questions it is advasable to employ some of the older methods as 1 ell as roentgen ray examination.

The nvest gation reported in this a ticle was made la gely to determine the value of the roentgen ray in discovering whether or not an ulcer has healed under treatment

A gast e ul er is reported as healed then the deformity or niche has d appeared but a duodenal ulcer is frequently reported as heal d when the

deformity persists Of 140 cases studied the deformity of the duodenum persisted in 132 (943 per cent). This means either that the disease is chronic or that the deformity remains after healing. If the latter is true it is necessary to be able to recognize in the deformity characteristics which distinguish the healed from the active ulcer.

The authors attempted to discover such roentgen characteristics by studying a large series of cases at intervals during the course of treatment. They also classified the various types of deformities giving careful attention to the duration of symptoms in each type. They concluded that there are no characteristics differentiating a healed ulcer from an active ulcer. Moreover, their data supported the theory that duodenal ulcer is a chronic disease which is rarely cured by treatment.

CHARLES H HEACOCK M D

ind F W The Machanism of

Morley J and Twining E W The Mechanism of Deep Tenderness in Gastric and Duodenal Ulcer Brit J Surg 1931 voil 376

The authors emphasize that in a study of pain due to lesions of the stomach and duodenum it is most important to distinguish clearly hetween sponta neous visceral pain and objective pain Mackenzie and Lennander have proved that the stomach is in sensitive to the ordinary mechanical chemical and thermal stimuli which cause pain when they are applied to the sensory nerves Opinion varies greatly concerning the stimulus necessary to produce pain of gastric origin Such pain has been attributed to in creased intragastric tension (Hurst) stimulation by hydrochloric acid (Palmer) and vascular congestion in the ulcer region (Kinsella) Spontaneous visceral pain in gastric and duodenal ulcer sometimes occurs without any tenderness on pressure and tenderness on pressure may occur without spontaneous pain Visceral pain is felt in the center of the epigastrium but is not accurately localized by the patient and does not move with a change in the position of the stomach Deep tenderness however is very ac curately located

This article is based upon examinations of twentfour patients who presented both a demonstrable
ulcer and a localized area of deep tenderness. In each
case the pain point was charted in the clinical
examination in the suprime position in a lateral
position and with the patient standing erect. The
empty stomach was then visualized by harium in the
erect position the point of most severe deep tender
ness marked with a metallic ring and a reentigen
ogram taken. The patient was then placed in the
suprime position with the ring left in sixt the point of
greatest tenderness found in this position marked by
a second ring and another roentigenogram taken

a second ring and another reenigelogian about From these investigations the authors conclude that the point of maximum tenderness and the ulcer usually correspond exactly. When a variation was noted in the films in the cases reviewed it was well within the limits of legitimate error. The area of localized deep tenderness on the abdominal wall.

corresponded generally to the ulcer crater and shifted its position with the ulcer. These observations are incompatible with Mackenzies theory of a viscerosensory reflex. Deep tenderness is believed to be due to stimulation of the sensitive parietal peritoneum hy contact with the inflamed area of stomach or duodenum at the site of the ulcer with radiation from the nerves of the parietal peritoneum to the more superficial hranches of the same sensory corethrospual nerves. John W Nuzum M D

Sullivan A J The Role of Surgery in the Treat ment of Peptic Ulcer Vew England J Med 1931

The author gives the gastro enterologist's views of the place held by surgery in the treatment of peptic ulcer. In tracing the trend of treatment since 1901 he states that today in the better clinics there is close cooperation between the internist and surgeon.

Peptic ulcer is defined as a chronic recurrent disease which is fundamentally a medical problem hut frequently requires surgical interference

The indications for surgery in gastric ulcer are (i) perforation (2) repeated and severe hemorrhage (3) the possibility of malignancy (4) hourglass de formity (5) pylone obstruction (6) absence of healing or the occurrence of only partial healing after thorough medical treatment and (7) recurrence in spate of thorough medical treatment.

The indications for surgery in duodenal ulcer are (1) perforation (2) repeated or severe hæmorrhage (3) pylone or duodenal obstruction (4) absence of healing or the occurrence of only partial healing after thorough medical treatment and (5) the development of a recurrence in spite of thorough medical treatment.

Acute perforation whether duodenal or gastric is an indication for immediate surgical intervention Early diagnosis and operation are of prime importance. Simple closure is considered the procedure of choice in most cases

In cases of hemorrhage surgery is usually contra ndicated when the patient is still hleeding. Rare exceptions to this rule are cited. A patient who presents himself with a bleeding ulcer and gives a history of hemorrhage is not a surgical problem until after thorough medical treatment has failed to cause improvement. If the patient is under medical management when the hemorrhage occurs surgery is indicated. When possible the ulcer should be excised.

In a large percentage of cases showing a six hour residue of the roentigen test meal the lession is an active ulcer with spasm cidema and congestion causing temporary obstruction which can he relieved hy medical management. Only cases of obstruction due to cicatricial deformity, should he subjected to operation and these are greatly henefited hy preoperative medical care. In cases of obstruction due to cicatricial deformity the hest results are obtained from gastro enterostomy.

Houselass d formity of the stamach is infrequent Hurst's ys that in cases with active ulceration opera tion hould be performed vithout delay if X ray examinat on sho s four hou stasis in the proximal segment. Othervie medical teatment may be tried in the hope that part of the narrowing is caused by spasm. In cases vithout acti e ulceration operation should be pe formed if sufficent tasis a present to cause symptoms in spite of dietary treatment Wh the the ulcer is active or not overation is i dicated if the hourglass contraction is ass ated ith pyl r obst ucti n

The incidence of mal gnancy in chronic gastric ulcer does not e coud to per cent Vio e and m re chinics are adorting the therapeutic te t in case in

shich malignan si su pected

The author gives in outline of a hat he considers dequat med cal t catment of ulcers. He believe t is e ceedingly ra e for an unc mpl cated ulcer t persist unhealed a spite i thor ugh medical treat

In di cu sing the surgical treatment of uncom plicated ulcers he stat s th t it is generally believed o per cent of p ptic ulcers de el p com plications requiring su g cal tre tment and b to een nd o per cent more qui e urgical intervention be au e of failu e to heal or ecurrence after thor

ugh medical t eatment The se eral types of surgeal preedues are des red and their relative ments deu ed

The p stoperation in dical treatment is discussed The author conclude that we can expect in idence of cure of ul e nly from thor sigh medical t eatment supplemented by prompt surgical inter ference when indicat ons for operation a 1 e L EVER THE BO IL M D

Bast anell R Ca cinoma Per gastroduod nale 5 8 03

Bastianelli calls attention to rare epithelial tumo s ar s no f om the valls of the stomach or duodenum He state that these neoplasms together with connect e us ue tumors of the stomach especially s room ta and e ogastric cancers of the stomach and c l n constitute a group which in the future must be c as der d in the d agnosis of abdominal ondit on and ometimes may be diagnosed correctly I the clinical and anatomical lacts are kept in mind. He repo ts a ca e of epitheli I tum arising p obably from the ubserous coat f the stomach and duodenum S MI L KAI V M D

Thur t n H F Th Rôle of the To in of Bacillu Welchi in th To amia of Acut Intestinal Obst uction An Exp m ntal Study S # 1031 W1 72

The formation i lethal substances responsible for the toxemia of acute intest nal obstruction is d pendent upon the pre ence of bacte ia in the lumen of the obstructed bo vel

Williams advanced the theo s that the town of bacillus weichii is the toxic agent in acute intesti al obstruct on Certain stra us of this organism produce a po erful myotovin which is heat labile Will ams found the organ sms in the vomitus from patients with obstruction demonstrated the toxin in the filtrate of the c ntents of the obstructed boy el by animal experimentation and inoculation and lowered the mortality in clinical cases of intestinal obstruc tion and peritonitis by gring bacillus welchin

From exper ments vh ch he reports in this article Thurston drays the following conclusions

 Dogs suffering from toxemia caused by acute intestinal ob truction are not helped by passive o active mmunization to the tox as of bacillus velchil 2 Dogs vith acute intestinal ob truct on produce

no immune bodies for such toxin

3 There is no evidence of the pre ence of the in of bacillus velchii in the abdominal transudate or in the scrum of the blood from the mesenteric eins of dogs - ith acute intest nal obstruction

4 There is no direct or indirect evid nee that toxins of bacillus velchii have any rôle in the to e mia of acute intestinal ob truction

Ho ARD I MCKY OF MID

Vall pour V The import nce of Roentgen Ex amin tion in Duodenst Ul er (L mp rts s 930 I 000

There I often a decided d agreement in the roentgen find ngs in duodenal ulcer not only in cases in a high the roentgen diagnosis is based in ndirect signs (hyperperistal s hypersecretion hy pertonia Kreuzfuchs duodenal m til tv spastic phenomena) but allo in tho in high it a bas d o i d rect signs (anatomopath logical changes caus d by the ulcer in the pileus ventricul) The author believes that the cause of the disagre ment may be sought particularly n difficulty experienced n e am ang the duodenum with the wray Today b w ver the diagnosis of duodenal ulcer a facil stated by rap d roentgenography serial roentgenog aphy and selective r entgenography

Vallebona re eys the arrous special method proposed the ntroduct on of an opaque substance with a duodenal ound refilling of the stomach the sm Il quantities of opaque substance comp ession of the p lleus ventr cult a combined method appl d to the st mach (originated by Vallebona) a c m bined method applied directly to the duodenum (I ribram) and block ge of the du denal r gi n (Maraghano) He descr b in detail a forceps de signed by him for the purpose of compre sing the m ddle port on of the stomach and the th rd portion of the duo lenum immediately above the duoden jeju at flexure to cause simultaneous closure of the du denum and expression of the gastric conte ts from the puloru into the duodenum

In some cases difficulties of the roentgen t charque alone may be the cause of an erroneous interpreta tion H veve the r entgen examination 1 to be egarded only as an adjunct to clinical examination The roentgenolog t should be ry cautious in his evaluations and in definitely establishing a diagnosis hecause the roentgen findings cannot always be interpreted exactly. Moreover it is necessary for the physician and surgeon to know the difficulties and deficiencies of such roentgen examinations

MARGUERITE P SLOAN

Rankin F W and Bargen J A Vaccination Against Peritonitis in Surgery of the Colon Further Report Arch Surg 1031 xxii 98

In December 1028 Rankin and Bargen reported 61 cases of tumor of the colon resected after the patients had had the henefit of co operative medical and surgical management. An important part of the treatment was intraperitoneal vaccination. The striking reduction in the mortality in this group as compared with a control group in which operation was performed by the same surgeons under the same circumstances indicated that intraperitoneal vaccination was an important factor guarding against the peritonitis which is the cause of death in more than half of the cases. By October 1 1929 Rankin and Bargen had increased to 300 the series of cases in which vaccination and operation had been done at the Mayo Clinic.

Pertoneal contamination has always been considered one of the most serious menaces to successful surgical treatment of the colon. Therefore any agent which obviates peritoriats or militates against it is a highly destrable adjunct to the surgeons arma mentarium. It is evident that vaccination alone would fail to give satisfactory results and that it

must he combined with other measures

Recently Rankin and Bargen made cultures from 18 malignant colonic lesions immediately after their extirpation The results obtained seem to bear out the assertions made relative to the infection in the peritoneal tissues in immediate juxtaposition to the growth The lessons of the houel from which the cultures were made included carcinomata of the cæcum ascending colon bepatic flexure splenic flexure descending colon rectosigmoid and rectum In 72 per cent of the lesions cultured only green producing streptococci and colon bacilli grew in 17 per cent no hacteria grew and in the other II per cent the cultures were indeterminate. The results suggest that the vastly predominating hacteria in and around malignant lesions of the colon are strep tococci and colon bacilli

Because of this fact and the fact that the visceral peritoneum acts protectively it seems of vital importance to establish a specific or non specific relationship between intraperitoneal vaccination and

the mechanism of its protection

Five series of rabbits (4 in each series) were in jected intraperitionally with anti peritonitis vaccine whole autoclaved milk suspensions of killed typhoid bacilli like those used for fever therapy hypertonic dextrose solution and sodium chloride solution respectively. The 4 animals were killed twelve twenty four forty eight and seventy two hours respectively after the injection. It was noted

that the cellular infiltration with polymorphonuclear leucocytes as well as macrophage cells of the omen turn was greatest in the animals which had had the anti pentonitis vaccine mixture of streptococci and colon bacilli.

Other series of rabhits all of the same size and general appearance and all seemingly in good health were given intraperitonical injections of the same materials vaccine of a mixture of streptococci and colon bacilli hilled typhoid bacilli hippertonic dex trose solution sodium chloride solution and whole autoclaved milk. The injections were made according to methods described by Herrmann and fortveight bours after the last intraperitonical injection large doses of equal suspensions of living green producing streptococci and colon bacilli were given

All of the rabbits given injections of milk half of those receiving typhoid hacilli and half of those receiving sodium chloride solution died with full minating generalized fibrinopurulent peritonitis whereas all of those inoculated with anti-peritonitis vaccine and all of those receiving detriose survived

The method of preparing the vaccine and its administration seem important. The organisms used for the vaccine are procured from the peritonial evudate in a case of peritonitis. The vaccine prepared from the streptococci and colon bacilli so oh tained is injected in physiological sodium chliende solution with a dulled spinal puncture needle into the peritonial cavity.

Important pre operative measures which render convalescence smoother and lower the mortality in these cases of malignant disease of the colon are thorough cleansing of the large intestine and the relief of obstruction. This has been accomplished in various ways including the giving of a residue free diet consisting primarily of fruit junces and candy up to 3 ooo calories are consumed in each period of menty four hours. A larative is administered and the colon is irrigated with physiological solution of sodium chloride twice daily

Betneen January 1 and October 1 1929 opera tion was performed in 222 cases in which vaccine was given and in 58 cases in which vaccine was not given. A review of 11 deaths from peritoritis in the 222 cases in which vaccine was given suggests con sideration of the types of operations. The patients operated on had all forms of surgical maneuvers that are applied to the colon at the Mayo Clinic. Many of them of course underwent or more major surgical operations as in all graded resections. For this reason the small number of 11 deaths from peritoritis is notice orthogen.

These it cases include some in which the usual procedures in operating on the colon at the Mayo Clinic were employed and some in which unusual procedures were used. In some of the cases of greatly debilitated patients very extensive operations were necessary.

The 58 patients with malignant lesions of the colon who were operated on during the same period and did not receive vaccine had lesions of similar situa tion and nature to those of the 222 who received vacane. Of these 58 patients 33 d ed of peritorniss the operatic procedures on the 13 included 4 ah dominope included 1 include

# Allende C I Po toperative Complications of Appendicitis (C mp 1 ac es p toper to 1 a de la pend 11) Sem a méd 93 1 697

The author re 1ems 300 cases of append c tis v hich he has operated upon since 1915 Two hundred and six ve e ch on c and 1 3 were acute The 103 acute cases are reported briefly. In the total number of case there were o deaths all of them in acute cases In 40 acute cases in the beginning stage and in 20 with simple eceptly formed adhesions there were no deaths wherea in 13 in the period of acute abscess there were 4 deaths a mortal ty of 30 per cent in 15 cases of perforated appendicitis with I cal zed pent mins the e we e a deaths a mortality of 20 per cent and in 6 cases with diffuse per tonitis the e were a deaths a mortality of 50 pe cent. In the 34 cases of acute omplicated appendicitis the mo tal ty as the efore 20 per cent a hereas in the uncomplicated c s the e as no mortality

To prevent postop rative omiting the author ga es from 30 to 40 gm of alkaline por der da solved in a lite of vater to thee days preceding the opera t on to neutrali e ga tric ac dity and o gm of hi carbonate of soda u balf a glass of water ten minutes befo e the operat on to neutralize the acidity that sill be au ed by atur t on of the stomach contents with chlorofo m This neutralization is particularly mportant in the cases of patients with Stiller's asthenic habitus. If persistent vom ting occurs in spite of it the stomach i is igated with a hot alka I ne solut on vith the patient lying on his abdomen and the b d t lted so that his head is down The author pre ers loc I to general anæsthes a as it arely causes vomiting. In recent years he has been using spinal anæsthe ia indu e i ith tutocain Eventra tion is apt to cour afte the Roux inci ion Allende has only een case of e entration after McBurney s inc s on and in that case e la gement of the incision had been necess ry When it is ne e sa y to drain a gere lized per t mit's he uses lalaguier sincis on In no in tance has the been followed by eventrat on

Infection of th ound pred sposes for entrat on and causes abse sand tour infect on Its frequency can be greatly reduced by carefully protecting the post the wound du ing the operat on and cleansing the abdomen with either. Frue mu cle abscesses are very rate but the aponeurous becomes infected easily. Therefo in cases with suppuration and particularly in the sof septic gangrene the author esects the aponeurous. In cases with suppurat on he also irrigates the vound with naphthalm or Dakins oliution. Draininge is indicated in cases with suppuration but not in interval operations.

the author s 49 acute uncomplicated cases in which the e were no deaths drainage was established in only 8. Allende attributes a great deal of his succes in cases in which closure vithout drainage was done to irrigation of the abdominal carity with either.

He thinks facal fistula is sometimes caused by too persistent a search for the appendix in cases of ab scess. It may be caused also by slipping of the su tures or deperiton: ation of the fundus of the cacum Allende has recently adopted the practice of fix ug graits of omentum over the excum and stump of the appendix to prevent such an occurrence However he has experienced no serious diffi ulty in curing facal fistulæ Three of his cases of appendicitis we e complicated by paralytic ileus in 2 of them death resulted Phlebitis developed in only r case a case of gang enous appendix. Two of his patients showed tachycardia after the operation but this was su cessfully t eated with digitalis and adrenalin. In a case Mende operated for permephritic abscess and in r for suppurative parotitis. He thinks that chronic tonsill tis is frequently a cause of appen AUDREY GOSS MORGA M D d citis

#### Gabriel W. B. The Removal of Pottlons of Maig nant Tumors of the Rectum for Confirmatory Section B t M J 1931 1 52

While the removal of sections of malignant tumors for microscopic study is often desirable it is fre quently dangerous for anatomical reasons and be cause of the danger of disseminating the diserse to healthy tissue. However, the rectum and a gmood are far rable situations for bopps, as these areas are easily app onched and the danger of d sseminating the desage by the removal [a small piece of issue is little geater than the danger mole of in the passage of faces or er the growth.

and the performs by the property of the control of

#### Hi schman L J Some P inciples Underlying th Su c salul T eatment of Some Ano ectal Diseases J Lar et 93 1 3

The examination made for the diagnosis of anorectal disease must include of et ale-examination of the bowel external inspects in of the surrounding parts and internal inspection in the use of the ano-cope prost scope and s gmo doscope. In main cases it is very difficult to feel an internal harmor rhoule ear when it is of considerable size.

In the determination of the presence location number size and ramification of perianal and perirectal for take the injection of b much paste through an external opening followed by stereoscopi reentgenography and man pulation of the parts under the fluorose persessential. For the diagnosis of many diseases of the rectum and colon a bacterio logical examination of smears of anorectal discharges

is necessary

While in the great majority of diseases involving the anus and rectum a permanent cure can be ob tained only by a surgical procedure temporary re hef can often be given by non surgical methods Conditions such as pruritus ani anal fissure and rectal ulceration moderate internal hæmorrhoids and prolapse can frequently be so relieved by local non operative measures that the result is quite satisfactory to both the patient and the physician However the treatment must be repeated at intervals

The destruction of internal hamorrhoids with the use of escharotics electricity or the actual cautery is frequently followed by deformity due to stenosis from faulty or excessive cicatrization resulting from fibrosis and sometimes by necrosis No procedure should be used which will destroy more than the lesion. A clamp operation is a blind operation Important principles to be observed in the surgical removal of internal hæmorrnoids are conservation of the blood supply and the prevention of unnecessary operative hæmorrbage. In the technique used by the author an absorbable catgut ligature is placed around the nutrient vessels of each hemorrhoid just above the point at which they enter the hæmorrhoid Each of the three hæmorrhoidal arteries and veins is treated in this manner before it is incised

In the exposure of an internal hæmorrhoid an ellipse of mucous membrane equal to the excess mucous membrane covering the lesion is removed The incisions for this purpose and all other incisions in the anorectal canal are made in a longitudinal direction or parallel with the long axis of the large bowel The elliptical opening produced exposes the diseased vessels forming the hamorrhoid These vessels are picked up with the thumb forceps and excised and all varicose vessels down to the sphincter are removed. By this procedure the muscle is ex posed to a degree not possible by the clamp or blind operation and the danger of injury to the

sphincter is greatly reduced

Conservation of the sphincters is important When caudal or spinal anæsthesia is used dilatation of the anal sphincters is unnecessary

Whenever possible suturing of wounds in the mucous membrane of the anorectal region should be avoided

Every wound made in the anorectal canal must be carried down through the anal aperture to the perianal skin and all incisions must be made radial to the orifice and parallel with the radiating skin folds Care must be taken to avoid leaving pockets at the outer ends of incisions

The introduction of a tube pack or tampon into the rectum after operation is contra indicated If ligation is done before the cutting a pack to control hæmorrhage will be entirely unnecessary

As soon as sensation returns to the parts any material inserted into the rectum by the surgeon will produce the same stimulation as a stool and thereby cause peristalsis with unnecessary pain

The use of drugs such as opium bismuth salol and astringent proprietary preparations to lock up the bowels should be avoided In the author's cases large doses of mineral oil are given on the evening following the operation and every evening thereafter to facilitate bowel movements when they are started again

The insertion of a probe blindly into a fistulous opening may result in the production of false or traumatic tracts Of greater aid in the examination of a fistula is the injection of fluid bismutb paste into the external opening of the tract If more than one external opening is present the bismuth paste will emerge from the other external openings as well as from the internal opening Through an anoscope it can he seen at the site of the internal opening or openings Stereoscopic roentgenograms of fistulous tracts and cavities made after the injection of hismuth give a clear picture of the size location direction and relations of the fistulous tracts

The treatment of a fistula is governed by the type of the tract An external sinus requires merely en largement of the opening to convert it from a bottle shaped cavity to an open draining wound Fistulæ sometimes heal after the injection of bismuth paste

but as a rule require incision or excision

As a fistula is the second stage of a condition which begins as an abscess the prophylactic treat ment of fistula is complete drainage of the abscess An abscess should be punctured as soon as it is recognized in order to relieve the tension within it and prevent its spontaneous rupture in an un favorable area The patient should be told that the puncture is merely a temporary relief measure and that the abscess must be operated upon within the next day or so for its complete removal and drainage

In the after treatment of abscesses as well as of fistulæ gauze packing should be avoided

In order to prevent agglutination of the skin or mucous surfaces the author inserts pieces of thin rubher dam or gutta percha tissue for forty eight hours

When several fistulous tracts are present and undermine the sphincter they should all be injected with hismuth paste and a silk suture should be drawn through each of them and tied loosely around the sphincter to serve as a drain and as an indicator of the location of the tract Only one tract under mining the sphincter should be operated upon at a time and this tract should be allowed to heal com pletely before another is treated

In dealing with conditions of the lower intestines of a more grave character such as stricture oh struction chronic ulcerative coliti and carcinoma and in the treatment of complicated anal fistulæ it may become necessary in order to secure a clean surgical field to place the colon temporarily at physiological rest by temporary colostomy

In all disease conditions of the anal canal in which pain particularly spasmodic pain is an important factor physiological rest of the sphuncters is in dicated. This is true particularly in cases of fissure and ulcer of the anal canal. Rest of the sphuncters folloge dby immed at healing may be obtained by making an incision ac oss the sphuncter muscle at right angles to the fibers through the bed of the fissure or ulcer and even og the sentinel pile under local or causid annesthesis.

Early con alescence is favored by encouraging the patient to st up walk and defacate normally as soon as he sable to do so by giving a date which will produce a soft but formed dily stool by avoiding the use of saline cathartics and over notingene in enemas and by the use of hot's te baths

I FRANK DO GHTY M D

# LIVER GALL BLADDER PANCREAS

Cukor I Experiences in 1 500 Operations f r G li St nes (L f hru gen b 500 Galle t op a t e) Gjógjó i 93 484

In the introduction to this article the authors t test as log as we are unable to pre ent the formation of gall stone early operat in is the most conservative the formation of gall stone early operat in is the most conservative and the state of the sta

Cukor discusses the determ nation of the correct time for operation the operat e technique a d the

results of op ration

Uncomplicated cases may be dyided into the simple and cata rhal types A simple case is one n which se ere coles occur without fev P Between tak is the pat ent feels entirely well Ope at n discloses a sm the gll bladder th stones but ithout adhes! s In case with dull pains the

ithout adhesi s in case with dull pains the gall bil des somet mes thicken d and membra nous. In vouth the op rati e m tal it is seven to v In ad annead age ope attorn is ell tolerated f there have been in few attacks. With egr dit the time at which ope tion should deduce in accuse the time at which ope tion should deduce in accuse express diffe ent opin ons. The author h is found the result in the 2 types of cases about the same Chole stography helps in making the decision as to one ation.

In spite of on efficent methods of examinat on it is yet of ficult to d singuish between gall bladder stass ppe di tis a dil er. Gall stone disease is usually a onsequence of d sease of the bite producing system. E hy operation will cure the system in the producing system E hyperation of the bite producing system. E hyperation will cure the system in large percentage of cases if fever is present measures should be taken to reduce

the temperature befo e surger, is altempted but operat on should not be delayed longer than fr m ten to fourteen days. In case of pers stent interus operation should be done as e rly as possible but in cass of intermittent interus a thorough pre operatine e amination should be made. Operative tr at ment 1 contra undicated if the pat ents could tion is such that his I e will ce tainly be placed in danger by surgical inte vention as in the presence of heart disease pulmonary disease and fatty decrenation.

The author usually perfo ms the operation under ether anaesthes a alone b t occ sionally when it is impo tant to spare the he rt he c mbines the use of etl er 1th local anasthesia. As a rule he uses the transrectal approach. He emphasizes that with inc sions extending to the umbil cus the closure of the wound must be done with care to prevent hernia In the majority of cases the gall bladder should be removed as it is diseased. Great care must be taken in hæmosta s It very important to dra n the gall bladder bed th gauze. In the author's cases the tampon s removed on the eighth day if pos sible Cholecy stectomy is not do e in severe infec tious d seases of the gall bladder or in the cases of patients v th high fever and rigors or diabetes Under such conditions a bliary fistula pr ceed g f om Cou voisier s inc ion is fo med. The sto es a e removed particularly the ball v lve stone. The escape of the bie h s such a beneficial effect that the gall bl dder may be removed a few months later Clo ure of the fstula may be hasten d by oil or gly erin inject ons

D seases of the uppe bil 13 passages are as cated ith much more see re late symptoms and ha e a higher mo tality. In such conditions chole dochotomy or transduodenal papilitomy ith dra nage of the common duct and the use of a T tube is ndicated. The permeability of the pilla is of great importance. If thep pilla is not perme able it must be dilated with sounds. This is a matter that deeve see more care than it has usually received in the past. If the papilla i not dil table choled choduod nostomy must be done. For cases of muy it to the ler the author recommends te t ment thinsul from ooo to 1500 ccm of a 5pe cet infusion of suga ith from 20 to 5 units of sulla I fie does not employ the mucoclas of sulla I fie does not employ the mucoclas of sulla I fie does not employ the mucoclas of sulla I fie does not employ the mucoclas.

n 00 case

Intern sts have r ported complaints fter opera ton n about 20 per ce to fcase but loser examinat nof the evidence shows that for the most part the omplinits and be trubuted to other desired sess and that the true secondary pain a e so slight that they cannot be coutled gainst the go der suit of ta ed by the operation and most f them case after mild Ca Ishad treatment. True recurrences are ve v rare there is nothing one can do about them

A relation bet een c neer a d gall stones cannot be denied but is relatively very rare. In cases that

have not been neglected operability is approve mately the same as in cases of gall stones

In conclusion the author says that so long as cholelithiasis does not produce symptoms it is not a disease but when it causes symptoms it should be treated by operation The pathological changes cannot be judged from the clinical phenomena At operation the gall bladder should be removed if possible and drainage should be established tistula should be made only in case of necessity The best time to operate does not depend on the attacks If the common duct is occluded it should be drained The abdominal cavity should always be explored at operation. When gall stone operations are done at the correct time the mortality is about 4 per cent VON LOBMAYER (Z)

Amorosi O The Changes in the Common Duct After Cholecystectomy Studied from the Histological Point of View (Le modificazioni det coledoco dopo colecistectoriia studiate dal punto di vista istologico) 1rch ital di chir 1930 xx

The author reviews briefly the literature on the changes in the common duct following cholecustec tomy and reports the findings of a histological study of the common duct in dogs after periods of time up to five months following cholecy stectoms

Dilatation of the common duct is always noted after cholecystectomy. It reache its maximum at the end of sixty days and then remains unchanged for minety days During this time the dilatation is a true one due probably to the stasis of bile which follows re established continence of the phincter of Odds After one hundred and twenty days it diminishes but there is a hypertrophy of the muscle fibers of the duct wall which is probably due to an increase in the functional stimuli and the absence of the gall bladder After one hundred and nitt days the changes in the common duct remain stationary

The author concludes that the dilatation in the early stages is purely mechanical whereas later there is a true hypertrophy of the wall of the duct

PETER A ROST M D

#### MISCELLANEOUS

Subcutaneous Abdominal Injuries (Ueber subcutane Bauchverle tungen) 1rcl f klin Chr 1930 cxl 327

Since contusion injuries of the abdomen have been treated surgically there has been an increase in the incidence of recovery According to Petersen the mortality ranged from 60 to 70 per cent in the period from 1885 to 1800 decreased to 30 per cent in the period from 1890 to 900 and since then has re mained at about 30 per cent The decrease in the mortality has been due to improvement in the diagnosis and in recognition of the therapeutic indications especially the correct time for operative interference

This article is based on seventy nine cases of contusion injuries of the abdomen which were treated at the Innsbruck Clinic during the period from 1024 to 1929 Thirty five were treated surgically and forty one conservatively Three of the patients were ad mitted to the clini in a moribund condition

In the systematic examination attention should be first directed to the history This is important be cause the mechanism of the injury is frequently patho nomonic Circumscribed trauma for instance may cause subcutaneous rupture of the small in testine whereas all injuries of the liver spleen pan creas and blood vessels are the result of a traumatiz ing force applied over a broad surface. If the patient when admitted is still in a state of abdominal shock no opinion can be formed immediately regarding the character of the deeper injuries Shock is not a necessary accompaniment of every injury over it shows wide variations which may not be at all correlated with the severity of the trauma Nor does the intensity of the shock allow deductions as to the character of the organic injuries. One of the difficulties in the diagnosis of shock is the exclusion of hamorrbage and beginning peritonitis symptoms associated with hamorrhage and with beginning peritonitis exhibit wide variations. In the differential diagnosis between shock contusion hemorrhage and peritoritis the patient's appear ance is not of much belp. On the other hand the quality and rate of the pulse are of special importance Nausca and comiting are early symptoms of visceral injury. The retention of faces and gas is variously interpreted. This sign is regarded as characteri tic of injury of the stomach and intestines but its value is lessened by the fact that it seldom appears early Moreover when it appears im mediately following trauma it is often a manifesta tion of shock. The meteorism noted a few hours after trauma may also be regarded as a manifesta tion of shock when it diminishes but in some cases may be the precursor of peritonitis

The diagnosis of subcutaneous injury of the ab domen consists essentially in the demonstration of foreign material either blood or intestinal contents in the abdominal cavity The irritation of the peritoneum produced by foreign material is mani fested by pain and abdominal rigidity. The demonstration of fluid in the abdominal cavity by per cussion is significant but negative findings do not rule out injury since only amounts of 1 liter or more can be demonstrated by percussion

Only very exceptionally is it possible to determine the particular organ which is involved. Effort must be directed toward ascertaining the presence of foreign contents in the abdominal cavity and its effect on the peritoneum. When foreign material is found operative interference is usually indicated In spite of the most painstaking study there will always remain a number of cases in which a definite diagnosis is impossible but the syndrome is of a type which justifies operation. In such cases an exploratory laparotomy should be done If con

s rvative management is indicated the case should be vatched until all symptoms have d sappeared Of the thirty five surgically treated cases reviewed by the author single injuries vere found in t venty five and multiple injuries in ten

In the cases of single injuries the mortality was 16 per eent and in the case of multiple injuries it as

4 per cent The total mortality was 22 8 per cent The author d scusses injuries of ind vidual organs Inju ies of the li er Of the ten cases of liver in

ol ement revi wed a single les on was present in fou and multiple lesions were found in three Three deaths occurred in the first group and one death in the second. To o patients who were admitted to the cl nic n a mor bund condit on died before operati n could be performed. In all cases the capsule was lacerat d While no instance of subcapsular rupture

fithe l er a bserved extensive central crushing f the liver penchyma vas found ath tears of only light e t nt Operat on con sted in suture with subsequent tamponade to take care of the ble

d am ge

lecording to extensive Iniu es of the spleen statistical stud es the incidence of involvement of the spleen is about half that of involvement of the Physiological splenie enlargements and to a greater degree pathological enlargements increase the dange to the spleen in eases of trauma. In five f the six cases of rupture of the spleen which are re

ewel by the author the spleen was no mal and in ne case it as enlarged by malaria. In the latter there was only one lesion whereas in the five other e ses there were complicated ruptures. In the cases of complicated ruptures there were two leaths. In b the f the fat I cases death was due to fat em b lism from multiple fractures of bone. The d agn s of splen c rupture is based on the signs of s vere internal bleed ng following trauma in the r gio of the spleen In all of the cases reviewed there were multiple deep transverse tears. The perat ve t eatment consisted of spienectomy in five ease and tamponade in one case

Injuries of the Lidney Injuries of the Lidney are more eas ly recognized than injuries of other organs because of ham turia associated with the former Of the se enty nine cases of contus on of the ab d men e eved by the author hamatu a ranging from mounts which could be demonstrated only with the aid of the microscope to massive hamor rhage occur ed in twenty thee Seven cases with hæmaturia w e tre ted surg cally There were no deaths in e ther the conservatively or the surg cally treated c ses Operation was beoun vitb exploratory e posure of the kidney The condit ons then found determ d the subsequent procedure

Injury s to the large blood vessels There were two cases of isolated lace ation of a blo d vessel (the mesenteric a t v in one and the abdom nal aorta in the othe ) and two cases of lacerations of blood vessels (the superio mesenterica tery mone and the renal artery n the other) resulting from other in tur es The di nosis can never be made with cer

tainty as the hamorrhage s more apt to suggest bleeding from a parenchymatous organ th n bleed ing from a blood vessel. Of three cases coming to operation the vascular source of the bleeding was found during life in two and at autopsy in one

Injuries of the pancreas There were no isolated injuries of the pancreas in the cases reviewed. In the complicated pancreatie injur es the symptoms from injuries to the other organs were always pre dom nant Four cases of complicated inju y to the pancreas were treated. In three the p nereatic injury was assoc ated with injury of the spleen and in one ith injury of the liver. The symptoms of the injury to the pancreas we e in no case definite th panereat cles on b ng as a rule discovered only on explorat on of the abdominal eavity. When the laceration in the organ exhib ted smooth edges the parenehyma and capsule were sutured and a drain was introd eed do n t the suture line. In the presence of crushing and destruct on of the tissues only tamponade and dra nage could be considered The operative mortality w s so per cent

Injuries of the gastro intestinal tract Because of their frequency njur es of the gastro intestinal tract pl y an important role in subcutaneous in juries of the abdomen. Most frequent are injuries to the small intesti e ne t most f equent injur es of the large intestine and least frequent injuries of the stomach Ruptures of the intestines usually cause sbock of shorter or longer luration Rigidity of the abdom nal wall a bich at first is localized is always p esent and soon begins to spread. In ele en ca es of rupture of the small intestine which are reviewed

there was only one death The prognosis a subcut acous abdominal trauma depends upon the time that the injuries are diag nosed and treated In cases of multiple ruptures early operation may prove life aving During the operation a careful e ploration of the abdominal cavity should be made not only in eases in which the di gno 3 is doubtful but also in all othe s. In the seventy nine cases of contusion injury of the abdomen which vere treated in a five ca period n accordance with the prine ples ment oned the total mortal ty as 30 per cent and the operatic mortality 22 8 p r cent ZILLN R (Z)

Gustini n \ and Antonelli A Congenital Di phragm to II rai in an Infant (il ra g ta ultt) Se dı fragmátic méd 931 xxx

Congenital d'aphragmatic hern a is usually an autopsy finding or the revelation of a diagnost c error The case reported in this article was that of a boy twenty two months old who was admitted to the hospital with the diagnosis of bronchiti and pulmonary congestion with serof hrinous pleurisy on the right side. The cindition had begun eight days previously with fever a dry cough dyspacea and v calmess

Examination of the anterior a pect of the chest disclosed convexity of the sternal region with nar

rowing at the base and a costal depression in the lower third of the right hemithorax. Examination of the posterior aspect showed asymmetry convexity of the left hemithorax and diminished respiratory excursions of the base on the right side. Vocal fremitus was normal on the left side and slightly diminished on the right side. Resonance was diminished at the apex on the right side. In complete dullness was found in the region of the scapula and complete dullness at the base. The vesicular murmur was reduced and sounds without the distinct characteristics of rales and without relation to respiratory movements were noted. No definite diagnoss was established.

A double pleural puncture at the seventh and cighth intercostal spaces yielded a few drops of serous fluid Cupping classes and cataplasms were applied twice a day and adrenalin was given Rocntgenography seven days after the patients admiss ion to the hospital did not clear up the

dagnosis Irregular shadows noted in the right hemithorax which were due to the contents of the herniated abdominal organs suggested the presence of hepatized zones in the lungs and pleural thickening.

Autopsy revealed a very small right lung and occupying the greater part of the right hemithoray the small intestine execum appendix ascending colon and the middle part of the transverse colon The hattus in the right diaphragm through which the intestine passed was of triangular form with its external base on the costal cage. Its apex easily admitted two fingers

The authors emphasize the importance of keeping haphragmatic hernal in mind in the diagnosis of chest conditions. In the case reported the history and the clinical and roentgenographic data while not pointing directly to the diagnosis would at least have sided it if the condition had been considered.

MARGUERITE P. SLOAN

servati e management is indicated the case should be natched until all symptoms have disappeared Of the thirty five surg cally treated cases reviewed by the author single injuries vere found in twenty

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there was only one death The prognosis in subcutaneous abdominal trauma depends upon the time that the injuries are diag nosed and treated. In cases of multiple runtures early operation may prove life saving. During the operation a careful exploration of the abdominal cavity should be made not only a cases in which the d agnosis is doubtful but also in all others. In the sevents n ne cases of contusion injury of the abdomen hich ere treated in a fi e year period in accordance with the principles mentioned the total mortality vas 139 per cent and the operative mortality 22 8 per cent ZILLMER (2)

Giu tinian \ and Antonelli A Congenital Disph agmatle Hernia in an Infant (II r gent a n l tante) Sm d afr gmåt ca mtd 193

Congenital diaphragmatic hern a is usually an autopsy finding or the re elation of a diagnostic error The case renorted a this article vas that of a boy twenty to months old who as admitted to the hospital with the diagno is of bronchitis and pulmonary congestion with scrofibrinous pleurisy on the right side. The condition had begun eight days previously with fe er a dry c ugh dyspincea and cakness

Examination of the anter or aspect of the chest disclosed convex ty of the sternal reg on with nar infections of atrophic prolapsed uteri are uncommon and hence are not subjected to the cancerization influence of micro organisms. Lumiere suggested that trauma may mechanically destroy the tissues of the prolapsed cervit which ordinarily would undergo malignant deseneration. This divergence of opinion as to the probable cause of cancer immunity of the cervit in proadentia leads the author to urge a more careful study of the problem. He suggests that having once discovered the reason for the apparent cancer immunity investigators might more easily discover the cause of cancer itself.

HAROLO C MACK MD

Esguérra Goméz A nnd Esguerra Goméz G Roentgen Control in Radium Therapy of the Uterus (El control radio rafico en la cuneterapia uterna) Rev méd de Colombia 1930 1 203

There has been a great deal of variability in the results of radium treatment of the uterus for epi theliomata fibromata metritis and metrorrhagia The authors attribute it to lack of uniformity in the application of the radium. When in the treatment of epitheliomata of the skin the tubes were held in place by bandages the results were satisfactory in only 18 per cent of the cases but since the use of Columbia paste which holds the tubes firmly in place the treatment has been successful in 60 per cent of cases Tubes inserted in the uterus may also slip out of place so that the irradiation is not applied as intended. To prevent this repeated roentgen examinations should be made and the tubes restored to place if they have slipped. Anteroposterior and lateral roentgenograms should be taken The au thors believe that with such roentgen control radium treatment of the uterus will be more uniform and much more favorable

AUDREY GOSS MORGAN M D

### ADNEXAL AND PERIUTERINE CONDITIONS

Migliavacca A The Antagonism of the Male and Female Sex Glands Researches on the Ovary (Lanta-onismo delle ghandole se suali masch he femm ult Richerche sullo ano) Rr. ital dig n.c. 1930 4 475

The author studied the histological changes in the ovaries of experimental animals following the injection of varying doses of testicular extract. He noted that small doses stimulated the development of the follicles whereas large doses led to an increase in the cortical connective tissue and follicular changes Relatively large doses caused attess of the follicles and an increase in the tunical albuginea which formed a wide compact stratum of cortical connective tissue. The author believes that this increase in the tunical albuginea may prevent extrusion of the mature ovum thereby explaining the temporary sterility which follows the injection of testicular extract.

With regard to the use of testicular extract in gynecology the author suggests that the stimulating effect of small doses of the extract might be of value ın ınfantlısın bypoplasıa and amenorrhœa and tbe depressant effect of larger doses of value in ovarıan dysfunction especially that associated with excessive menstruation Peter A Rosi M D

Introzzl A S A New Surgical Procedure for the Treatment of Sciercosystic Ovaritis Its Basis Technique and Results (Nuevo procedimiento quirurgico para el tratamiento de la ovanti esclero qui tica suis fundamentos técnica y resultados obtenidos conclusions derivades del mismo) Bol inst de clir quir 1930 11 277

Introza finds that no adequate treatment has yet been suggested for sclerocystic ovaritis although this condition is a well defined clinical entity. The procedure described in this article which is based on a study of the ovarian arteries vens and nerves was suggested by recent progress in the surgery of the sympathetic nervous system.

Science/stic ovaritis has been ascribed to infection neuroprithic conditions congestion and disturbances of the sympathetic netwous system but none of these theories is sufficient alone to explain its pathogenesis. In Introza sopinion the theory ascribing it to disturbances of the sympathetic nervous system is the most acceptable as it explains the attacks of pain the constant refer symptoms and the menstrual disturbances. Moreover it has been supported by a series of anatomical and anatomopathological investigations and unlike the other theories has been confirmed by therapeutic results.

As in every condition not entirely understood the treatments employed in sclerocystic ovaritis bave been very numerous. The non surgical procedures include the administration of sedatives and antispasmodics hygienic measures opotherapy and specific treatment belietherapy and irradiation with ultraviolet and infrared rays. The results of all of these methods bave been variable. The surgical procedures may be divided into three main types those directed to the ovary such as ignipuncture and partial resection those directed simultaneously to the ovary and uterus and those directed to the sympathetic system While sympathectomy-par ticularly Cotte's method resection of the presacral plexus-has been done rather extensively Introzzi emphasizes that the ovary is innervated by the spermatic plexus and as there is no anastomosis between this plexus and the plexus which follows the uterine blood vessels it is impossible to produce an effect on the ovarian nerves by sectioning the presacral plexus

Introzzi s operation which has been performed in five cases consists in resection of the utero ovarian vasculoner vous fasciculus. A low Pfannenstiel lapa rotomy is done and the internal gentalia are care fully explored. If the diagnosis is confirmed and there is no concomitant affection which eighan the pain the hidovarian ligament is beld tense and an incision about 4 cm long is made with the bistoury in the peritoneum at the level of the

free edge of this I gament. The seriosa is then separated from the anterior and posterior sides of the I gament to its base with a blunt instrument. All of the elements of the viscultonervous face culus are resected to an extent of 2 cm. their end are ligated and with the same blunt instrument the small amount of fatty t sue b th may remain at the base of the I gament is divided. The sh once of hixmor rhage having been confirmed (if the operation is performed properly no viscular nighty. Ill occur) the perstoneal ound is closed. The ligament on the other side is treated in the same vay After prophylactic appendectomy the abdominal wall is closed in layers.

The five cases in which this operation has been performed vere uncomplicated by gential infect on After the second postoperative menstrial per of there has complete cessation of the pain and other disturbances.

Introzzi finds anatomical physiopathological anatomopathological and therapeutic bases for his operation. From its results he draws the following conclusions.

The only cause of the clinical syndrome of science; stic ovarities is unquestionably the ovarian

2 The o ary acts on the rest of the gential system thr ugh the agency of the nervous system the afferent or centripetal ramification of hich can be no other than the utero ovarana plesus. The d stantfunct onal and pa reflexes are explained by ana tomical relat onships bet veen the spermatic plexus and the renal and intermenenter c plexuses and bet een these and the lumbar and bypogastic of plexuses.

3 The rr tative foci in the ovary are probably les ons in the reg. n of the ovarian nerve bundles

4 The m trorrhag a of several hours durat on the choccurred about forty eight hours after the operation in all of the five cases reviewed that due to an intense was dilutation in the interior mucosa.

h h as dep ndent upon the close relationship bet e n th ovarian nerve elements and the vaso mot r syst m f the uterine mucosa

5 Ovarian function is not altered in the slightest as a result of the enervation on the contrary it is an an interest of the contrary it is an an interest of the contrary it is an an interest of the contrary it.

6 When the diagnos s has been established operation should be performed as s on as possible MARGUERITE I S OAN

Meyer R The Variety of Q a lan Tumor That Leads t M s ulinization (U be d A t d r V m and hu g fu hread O a ltum n) 21 h f G b 1 h 930 xc 49

The assumption that mascul suration is caused by ovarian tumors is confirmed when refern nization occurs after ext rpation of the tumor even if recurrence develops. Disagreeing with Halbans theory the author claims that these tumors belong to a spec all variety and that recognt in of their peculiarity becomes difficult only after retragrees we

changes have set in. He divides them into three groups adenoma tubulare testiculare ovaru atypical forms and trans t onal forms.

s' Adenoma tubulare testiculare ovarin (of the cases of the morpholog cally simplest forms reported by Pick. Schickele and Neumann misculation occurred in only one that reported by Neumann in which the tubor sho wed an astonish mig redness of trans to onal cells and resembled an adenoma of the testis. To the same group belong cases of adenoma tubulare part in the carcino matosum ovari of Meyer Aeumann Irebatica and Roped man in the carcino matosum ovari of Meyer Aeumann Irebatica and Roped man in the carcino matosum ovari of the carcino matosum ovari ov

one tinte of the case of this group.

2. Alypseal forms of lumors. As neoplasms in
this group are frequently reported as sarcomata; its
mpossible to collect them from the literature. It is
certain bowever that those reported by Money
Stuebler Brandess and Halban ere of this tipe
Others have been described by Strassmann Wagnet
Alenahaus. Kanus and Go: Ier Allishoned a striking
Alenahaus. Kanus and Go: Ier Allishoned a striking
parts recembling options are morthages; in the
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tipe of the stripping of the library of the library
lumina are often recogn feet with difficulty. All
cases show masculin zation.

3 Transitional forms The author cites inter mediate cases of tubular and atypical tumors re ported by Meyer Bauer Hoeft and Moraller which

showed vary ng degrees of sexual transformation Although the case of I ick Schickele Blair Bell and Neumann are to be regarded as cases of con gen tal ovariotestes e perience has demonstrated that masculinization in later life from the influence of ovarian tumors on internal secretion is least fre quent in cases of the tubular forms of tumor vh ch most closely resemble normal testicular tissue and most frequent in cases of tumors which deviate fartbest from this tissue and slov definitely im mature cells. Bet veen the e e tremes there are intermediate cases. We are at first surprised by that e perience has shown us Nevertheless masculmizat on is absent in testicular hermaph todites The author call attention to the inferiority of these gonads. In cases 1 ith masculinizat on how ever it is not immediately clear; hether the persons were zygotically I ermaphroditic or hether pre Viously and flerent sex gland enithelium later veered in the male direction

In the sec nd part of the article the author discusses the different lands of bi stomats of the sex gland ep thelium in the ovaries and their functionlaten cell tumors granulosa cell tumors large cell carcamenta of the ovary and testrict tumors of the normally unutilized ep thelium of the ovary and tumors of the medullary epithelium and rete ovaru r Lutein cell tumors. The cases of lutein cell tumors which have been reported in the literature

to date have not been verified

2 Granulosa cell tumors (folliculoma folliculom form of granulosa cell tumors) The endocrine function of this variety of tumor is specifically feminine (hypertrophy of the uterus glandular hyperplasia of the endometrium) These tumors are an important factor in the early maturity of children

3 Large cell carcinoma of both Linds of sex gland or sex grand or sex grand or sex grand or the sex grand or the sex grand or the hermaphrodites pseudohermaphrodites non her maphroditic males and non hermaphroditic females. They are discovered especially often in young persons. They originate in the neutral germinal epithelium in which in embryonic life the capacity for differentiation was decreased but the capacity for proliferation was increased. Such germinal epithelium is neither male nor female nor hermaph roditic but inferior disgerminal. The tumors may be called disgerminomata.

4 Tumors of the normally unutilized epithelium of the ovary superficial epithelium. These neo plasms include the cystoma cylindro cellulare serosum (cilio epitheliale) the cystoma serosum the cystoma papillomatosum in a histologically benign and destructive form and the solid carcinoma with

and without cysts and papillæ

The question arises whether women who have tumors that lead to masculinization are of an inter mediate sex. There is a very evident difference he tween congenital hermaphroditism found usually in individuals possessing testes (80 per cent of the cases) and postfetal sex reversal in persons who apparently possess only ovaries (20 per cent of ovarian hermaphrodites). The question is Are these (obligate or faculitative) sex gland hermaph rodites zygotically male or female? As yet this question cannot be answered.

HANS O NEUMANN (G)

#### MISCELLANEOUS

Gauss C J The Clinical Picture of Temporary Roentgen Amenorrhœa (Die Klinik der tem poraeren Roentgenamenorrhoea) Strahlentherap e 1930 xxxvii 511

Gauss prefers the term temporary roentgen menolysis to the term temporary roentgen castra

Following a discussion of the historical development of temporary roentgen menolysis the author takes up the question of dosage. Instead of grunp, a series of small doses until the desired result is secured he has adopted the practice of grung the determined amount at one sitting. The dose for the determined amount at one sitting. The dose for the one dose treatment is given by different roent genologists at from 25 to 30 per cent of the skin crythema dose. Gauss prefers a technique adapted to the individual case. He usually measures the

dosage by means of an iontoquantimeter introduced into the vagina and administers it through one or two large fields. He recommends the Kadisch dosage tables as a control

With regard to the course and clinical picture of temporary roentgen amenorrhoea Gauss says that two or three menstrual periods follow the irradiation The duration of the amenorrhoza provoked has varied from four weeks to three and one half years Women under thirty five years of age require higher dosages for the desired effect than older women and an enduring amenorrhoea is secured more quickly with the same dosage in older women than in younger women lasomotor disturbances occur in about 87 per cent of the cases Reports regarding the effect of the treatment on sex feeling are at variance Trophic disturbances in the genital organs have not been observed. The use of tem porary roentgen menolysis for contraception is not permissible The procedure is of value chiefly in general diseases which would be made worse by menstruation (pulmonary tuberculosis menstrual psychosis hæmophilia) Good results have been obtained with it also in juvenile menorrhagia. In preclimacteric bleeding it has not been so satisfac tory as it frequently results in permanent amenor

In cases of myoma in the young it results in a cure in or per cent (Wintz) A new application is in endometriosis. When the condition is not a simple tarry cyst temporary roentgen menolysis may be tried. The chief condition in which it may be employed is inflammation of the adners with or without harmorrhage. Besides stopping the hæmor rhage it everts a specific effect on the inflammatory mass which is mainfe ted by quick relief of the pain and a decrease in the size of the mass. The pain and a decrease in the size of the mass. The only contra indication is possible injury to sub sequent progeny. It is not to be used to produce sterility.

In women under thirty five , ears of age the incidence of uninentionally induced permanent amenor rhome is about 4 per cent in older women it is higher Following the period of temporary amenorrhome sterility and a tendency toward abortion are noted in a high percentage of cases but the data are not sufficiently extensive to indicate whether the roentigen treatment or the illness treated is responsible.

While injury to an embryo can be prevented by proving the absence of pregnancy before the treat ment is undertaken (Aschheim Zondek test cur ettage) the problem of possible injury, to the ovum is not so easily solved. In a review of the entire medical hierature of the world only one proved instance of injury to an ovum which was fertilized early and only a few cases of injury of ova fertilized late were found. The frequency of malformations is no greater than in unirradiated women. However an early injury is possible. Therefore pregnancy should be prevented during the first five months after the application of the treatment or if

it occurs it should be interrupted. Late injuries have not been satisfactorily proved in the human being but are not imposs ble Therefore the treat ment should be used only in the cases of women ho re sterile and will remain so (adne al inflammation large my omata endometriosis) and women for whom operation is contra indicated

ucc V ACs of Derm id Cyst Free in the Pouch of Dougls (Sdodtdmoid lbalDgl) 1 taldk 93 ix 1 86

A woman forty five years of age entered the hos pital on account of attacks of acute abdominal pain E am nation disclosed a cystic tumor filling the pouch of Douglas A diagnosis of cyst of the ovary with a long pedicle was made. At operation the tumor was found to be about the size and shape of a goose egg It had no connection with the ovary and even m croscopic c amination showed no trace of a pedicle It was filled with long blond ha r and con tained a tooth and a piece of compact bone about the size of a pea

This was a dermoid cyst of the overy lying free in the pouch of Douglas It probably originated from the right ovary as the latter showed small cysts where s the left ovary was normal. The cyst was loosely adherent to the peritoneum. While it might have had a ped cle connecting it with the ovary o ginally the author helieves it was separated from the overy by auto amoutation ance there were no signs of a pedicle and there had been no clinical signs of torsion or rupture of a pedicle The patient made an uneventful recovery

AUDREY GOSS MORGAN M D

Meaker S R A Survey of C usati e Factors in Sterility Am J Ob i & Gy c 930 xx 749

Modern research has shown that sterility is usually due to the combined influence of multiple factors which depresses fertility below the threshold of con

About one third of all demonstrable causative factors are e tragenital conditions of constitutional de pression which lower the inherent fertility of the gametes. In nearly on per cent of sterile matings such conditions are operative in one or both part ners In the male they are usually more important

than abnormal local conditions About one third of all demonstrable causative fac tors are present in the male and two thirds in the female but in more than 90 per cent of clinical cases there is some division of responsibility hetween the male and female

A radical revision of older ideas of the causation of sterility requires the establishment of new standards for the complete diagnostic study of the sterile mat ing Thorough investigation points the way to ade quate treatment In the author's cases modern treatment has g ven successful results in more than twice as many cases as previous methods

E L CORNELL M D

## OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Meyer S Extra Uterine Pregnancy Near Term and Infected (Grossesse evtra uterine près du terme et infectée) Rev franc de gynée et d obst 1930 xxv 739

A nullipara thirty six years of age had had normal menstruation until April 1929 In the period from April to September bleeding occurred frequently In January there was a small daily bemorrhage of bright blood without clots. In the beginning of April 1930 the bleeding continued for four days and resembled normal menstruation Between April and September vomiting occurred frequently and there was intermittent swelling of the breasts. In April 1030 colostrum was secreted After Septem ber 1020 the abdomen increased in size The pa tient had noted fetal movements in November and December 10 0 but not since then On April 7 1930 she began to have a continuous but not very intense pain in the kidneys which radiated to the buttocks and the posterior surface of the thighs On May 5 when all of the examinations had been completed the author concluded that the pa tient was in about the eighth or ninth month of pregnancy that the fetus was dead and its death had probably occurred in December 1929 when the patient bad nephritis that the pregnancy might be intra uterine or extra uterine and that the febrile condition was due to infection of the fetus only Although renal elimination was very deficient and there was a severe uramia operation vas indicated by the menace of the infection of the fetus

Operation by the vaginal route was rejected be cause the cervix was far forward behind the symphy sis and the posterior cul de sac was enormously inflated On May 8 after forty eight hours prep aration an incision was made on the left side below the umbilicus When the peritoneum was opened the bladder was seen to be high and toward the right. In front of the tumor the peritoneum was walled off hy loose adhesions but on the lower half of the posterior surface of the tumor the adhesions were very firm. The peritoneum being protected the tumor was opened. A fetus between eight and nine months old was extracted It was in a state of anaerobic infection. The pocket which contained it was partially exteriorized and found not to be the uterus The uterus somewhat enlarged was on the right toward the front The right adneva bad been removed at an earlier operation. The pocket de scended very low in the lesser pelvis and adhered to the sigmoid Hysterectomy was done but enu cleation of the pocket was impossible

The first ten days after the operation passed without incident. The first Mikulicz drain was re-

moved on the eighth day On about the tenth day the faces filtered through the wound The wall had given way On the twentieth day the patient began to take nourishment and on the seventy eighth day she left the hospital with a small fistula in the wound and a rectovaginal fistula

Macroscopically the wall of the fetal pouch seemed to be composed of preformed tissue. His tological examination showed that it contained more or less dissociated muscular tissue very vascular connective tissue extensive infiltrations and necroses and numerous calcareous deposits The condition was probably an ampullar tubal pregnancy or a tubo abdominal pregnancy fetal infection must have been of long standing The patient had had fever for three weeks at least The maceration of the fetus and placenta was ad vanced The cord completely necrotic tore at the least touch The pus contained Gram positive cocci in chains and Gram negative bacilli. In cultures the latter were identified as colon bacilli author believes that the infection reached the fetus from the intestines by way of adhesions or the lymphatics

Collip J B Thomson D L McPhail M K and Williamson J E The Anterior Pitultary Like Hormone of the Human Placenta Canadian M Ass J 1931 vary 201

The authors describe methods of preparing extracts of human placents containing an alcohol insoluble principle and compare the effects of such extracts on the growth and weight of the ovary tests semmal vesicle prostate and epiddymis of immature and adult rats with the effects obtained by the implantation of pituitary glands

MAGNUS P URNES M D

Rwiere M. A Comparative Microscopic Study of So Calied Albuminuric Syphilitic and Normal Plucenter (Contribution & létude microscopique comparée des placentas dits albuminurques et syphitiques et des placentas normaux) Gynéc de bist 1930 vui 481.

Comparative studies of placentæ of women with sypbilis and those with toxemias of pregnancy asso cated with albumnuria have shown a striking similarity in the microscopic structure of both groups Pathological changes involving the syncytial elements of the placental villi the vascular system and the amnon have been described as characteristic of both conditions. This similarity has led to the statement that albuminuria during pregnancy is often a manifestation of maternal syphilis.

In the study reported in this article Riviere compared a series of paxteen placentæ of women with

albuminuma three placentæ of women with chronic nephritis twelve placentæ of luctic women and nine placentæ from women who had had a normal pregnancy Excess ve proliferations of the ecto blast vascular ectas as obliterating endarteritis necrosis of the villi and decidual hæmorrbages were pre ent in every series to at least an equal degree and n some instances were more pronounced in placentæ which were supposedly normal Riviere therefore concludes that these so called pathological changes are merely signs of senescence of the placenta. He believes that there are no absolutely spec fic changes which enable the pathologist to make an accurate different al diagnosis. In the placentæ of women with alhum nuria he bas found no evidence to support the theory that the fetal ectoderm is re ponsible for the symptoms of touc states assoc ted with pregnancy

HAROLD C MACK M D

Nu nberge I Studi on the Inte mediate Fat Metabol m in the F tus (U te h Ttt tff echs ! d te m d Ahf Gy k 93 ત્ત્રી 93

The autho a studies demonstrate definitely that the fat of the primitive organs is formed from gly co gen and consequently from carbohydrates Ths kno led e is important from several standpoints In the first place it brings us nearer to an under standing of the chemical processes involved in the st ng up of fat by the fetus We now know that the fatty depos ts n embryonic life are formed from glyc gen (carbohyd ates) Th s having been estab lished the fat metabolism of the placenta appears in a new light Since the studies of Hofbauer (1005) it has been sumed that the fetus receives its fat from the mother the placenta serving as the medium of transport This theory must now be modified While it can sea cely be doubted that fat or its split products pas through the placenta to the fetus th s fat s not deposited n the fetus but s probably used nother ways The fetus huld up to own fat d po its from carhohydrate (glyeogen)

The author s find ngs offer further p oof that fats may be el hor ted f om carhohyd ates The pos sibility of the fo mation of fats f om carbohydrates is today un v sally admitted but previously this w s me ely a sumed from the findings of feed ng metabolic or chemical studies on animals. In man the formation of fats from carbohydrates was demonstrated only by estimations of the resp ratory quotient hy B umgardt and Steuber Up to the p esent time the morpholo cal demonstration of fat formation from carbohydrates in man has been lacking Von Gerke reported that he had never b en able to demonstrate the presence of glycogen in the fatty t ssues of man and Nuernberger has been unable defin tely to demonstrate the presence of glycogen n bits of fatty tissue removed at operation Therefore t till remains to be determined whether the intermediate fat metabolism in the adult d fie s from that in the fetus HANS O NEUMANN (G)

Caffier P The T atment of Hyperemesis with Sug r and Insulin Empirical Experience and Th ory (Emp ne u d Tho der Hype eme be h dl g m t Zucker u d Ins ln) Z talbi f Gyn k 930 p 723

Systematic combined insulin dextro e therapy was given in twenty cases of hyperemesis gray idarum Interruption of the pregnancy was neces sary in only one case and in this i stance was indicated not by the hyperemesis but by Landry's

After the first vomiting the taking of nourishment of any sort by mouth or by rectum was stopped On the following day after a cleansing enema a drip clyster of from 30 to 50 gm of de trose in from 300 to 500 c cm of water was given and about fifteen minutes later from 10 to 15 units of insulin were injected Feeding by mouth was not recommended until one day after complete cessation of the vom ting. It was then begun cautiously with fluids and solid food was added gradually

In s t cases this treatment was completely suc cessful the vomiting c ased and the patients felt well Good results were obtained also in two other cases but the patients left the clime within the first eight days before the conclusion of an adequate period of careful clinical observation. In two other eases a similar reaction was obtained but in one of them spontaneous abort on resulted fourteen days after the patient's admiss on to the elimic and in the other hypoglycamie shock occurred. In five cases an immediate cure was followed later by recurrence but the recurrence yielded to repetit on of the treatment. In one case criminal abortion was done and in another spontaneous abort on occurred

In five cases the treatment failed. In two of these lypoglycamie shock appeared in 2 there was an accompanying icterus and in one abortion resulted In four of the fi e eases a cure was ob tained by dietetic and psychic treatment and in one by abortion The fact that hypoglycamic shock occurred to see and bypogly comie conditions 3 t mes indicates that the combined de trose insulin therapy should be carried out only in the chine

Following a discuss on of the theory of this treat ment the author concludes that not only the gly co gen frung action of the insulin but also stimulation of the hunger sensat on plays an important rôle He suggests that it might be advisable to replace the dextrose with levulose which the b dy can utili e more easily HARTMANN (G)

Smith G T and kinia W B Clinical Con de ation of an Anæm a of Pr gnancy nd the Puerperlum A I t W d 193 v 939

Anzemia of pregnancy and the puerperium has been established as a definite entity. To mer t this classification all other causes of anæmia except pregnancy such as hæmorrhage sepsis sypbilis prim ry pernicious anæmia and leukæm a must be e cluded. The onset a ms drous n the latter weeks of pregnancy and is characterized by weakness dyspnœa beadache palpitation dizziness ædema of the feet and occasionally an associated thramia of premancy The relationship of the condition to pernicious anæmia is close but no recurrence independent of pregnancy has been reported symptoms may resemble those of the toxemia of pregnancy

The possibility of puerperal anæmia must be kept in mind in the cases of women with fever albu minuria and toxemia after pregnancy. When this type of anæmia is present these symptoms promptly respond to treatment of the anæmia No clinical evidence of syphilis was found in any of the twenty

two cases reviewed

The treatment depends upon the indications in the individual case Blood transfusion is advisable if the anamia is severe and the patient is very ill and liver extract with hydrochloric acid if achlor hydria is present Large doses of iron may also be given The response is very satisfactory Recur rence will not develop unless the patient becomes pregnant again and possibly not then

MAGNUS P URNES M D

Stieglitz E J Nephritis in Pregnancy 1m J Obst & Gyn c 1931 X11 26

Stieglitz reports fifty five cases of nephritis in pregnancy which he divides into the following three

groups

Group 1 The nephritis of pregnancy or the syn drome of renal fatigue in pregnancy which is charac terized by a rather nbrupt onset at about the eighth month a mild course a good prognosis and a moderate arterial hypertension (average 153/97) Forty per cent of the author's cases were in this

Group 2 Eclamptic or pre eclamptic intoxica tion characterized by an abrupt explosive onset after about seven and a balf months profound intoxication of the liver and brain a bigher arterial hypertonia (average 185/115) and an unfavorable immediate prognosis but a fairly good future prog nosis About 22 per cent of the author's cases were

ın this group

Group 3 Nephritis in pregnancy with pre existing vascular and/or renal disease characterized by a very early onset of symptoms (after about five and three quarter months) severe diastolic hypertonia (average 194/148) and a fairly good immediate prognosis but a very poor future prognosis Forty per cent of the author's cases belonged in this group

The fetal mortality was highest (60 per cent) in

the cases in Group 3

Pregnancy induces a permanent exacerbation of

pre existing arteriolar and renal lesions

A fourth group of cases of nephritis associated with pregnancy is made up of those with other com plications such as cardiac disease thyrotoxicosis and infection

The author emphasizes the importance of careful evaluation of the renal reserve the significance of diastolic hypertonia the proper classification of the types of nephritis and the management of cedema albuminuma anamia and hypertension Effective therapy depends upon recognition of the type of the renal disease consideration of the causative factors nf the renal injury and the basic physiological changes occurring in the patient and measures for rehabilitation E L CORNELL M D

#### LABOR AND ITS COMPLICATIONS

Rudolph L and Ivy A C The Co Ordination of the Uterus in Labor Am J Obst & Ginec 1931 XXI 65

The authors report two cases of asymmetrical contraction of the uterus in labor. These cases raised the question of the mechanism concerned. A review of the embryology comparative anatomy and physiology of the uterus shows that this organ has a hilateral origin and that the two halves except where fused act more or less independently. On fusion a correlating mechanism becomes manifest

In a study of a type of co ordinated activity manifested by the portpartum uterus of the dog the nuthors found an intrinsic and an extrinsic mechanism the former in the uterine wall and the latter in the uterovaginal gangha. The former is the more important The dog s uterine motor mechanism in situ manifests the phenomena of refractory period and summation

The irregularity in the uterine motility obliquity of the uterus in the two clinical cases reported and other types of abnormal motor activity are explained on the basis of a functionally defective co ordinating mechanism

In the discussion of this report STEIN stated that be bas verified asynchronous contraction of the tubes in the cornua of the human uterus with lipiodol

FALLS said that the human uterus is fundament ally a bicornate uterus and that clinical evidence of becommusity in the human uterus is found much more frequently than the textbooks on obstetrics suggest

DAVIS stated that irregular contractions of the uterus are frequently mistaken for fibroids

E L CORNELL M D

kapel O Clinical Experience with Obstetrical An estliesia Induced by the Administration of a Barbital Derivative in Conjunction with Synthetic Pantopon (Expériences el niques sur l anesthésie obstétricale par un dérivé barbiturique associe au pantopon synthétique) Gy éc et obst 1930 XXII 505

Kapel reviews 300 obstetrical cases in which numal (a barbituric compound) and nirvapon (syn thetic pantopon) were administered intravenously for the induction of anæsthesia. The results al though far from ideal were very satisfactory in the great majority and far surpassed those of other intravenous methods The solution contained o 2 ctgm of numal and 16 mgm of pantopon per cubic

centimeter. The dosage used was 4 to 5 c cm of this solution the amount injected being determined by the effect obtained. The injection was made very si why requirin at least to minutes and was discontinued as soon as the patient became emissions stated that she felt no pain and fell into a light steep. The patients varied in their susceptibility to the drugs. The majority fell salesp after the inject to 64 c cm but in the cases of 15 an additionable of the control o

Excellent results were obtained in 86 per cent of the cases the patients experiencing no pain but retaining varying degrees of consciousness. In 7 percent the patient became violently apitated after the impection but experi need no pain. In another 7

per cert the results were poor

In the cases of primipare, the be t results were obtained when the cervit was dislated 7 cm or the greater d ameters of the fetal h ad had entered the pelvis. In the cases of multipare the opt mal time vas when the cer in had dislated; cm. In the presence of n rimal uterine contractions a transitory ces atton of contraction was occasionally noted and when the njection was made during uterine inertia the inertia was prolonged. In the cases of elderly primirare, and multipare uter ne contractions cased immediately, after the ringe ton. The effect was noted all on a cases. I the case of the ringe ton an increase of tendency to varid postpartium harmor rhase was apparent.

While the eff ct upon the mother has harmless in ever vinstan e trar ent a obyran as observed in the majorit if infant and in a instances of evere a physical the results were fatal. The mothers of both of the infants which died of a physica and tho e of others with siver asphysical had albuminaria. The prisence of albuminaria in the mother constitutes a definite contra indication the time of the effect of

While the author considers the results gratif in on the hole he advices against the u of the method in private practice because of the danger to the fetus. He ever in its prolonged action and the complete anesthesia obtained it is superior to other similar method.

I apel concludes h s report by emphasizing that the procedure 1 contra indicated in the cales of primipara out thirty years of ge primary utering unertal elevation of the temperature abnormal pre-entations if the fetus and maternal acphinits Harding CARS MD Clemente D Complete Spontan ous Rupture of the Uterus in Labor Vesico Uterne Fistula Recov cy (R it ra completa spo ta co d tero a tr v bo fit la v seo outen a guan o e) Pol ds Rome 1931 x x 11 s z prat 113

The case reported was that of a multipara thirty seven years of age Spontaneous complete rupture of the uteru during labor was caused by a shoulder pres ntation Seven hours after the rupture sub total hysterectomy was done. The operation was followed by necrosis vith the format on of a vein uterine fistula. Operation was performed on the fi tula by the vaginal route a month later. It con sisted of bilateral section of the cervix freshening and suture of the endocery ical fistulous orance r see tion of the muco a and the muscular tissue of the lips of the cervit and cloure with catgut. The resulting adhes one however were only partial. At a s cond operation the ti sues of the fornix were freshened and sutured with catgut. Complete recovery resulted WILLIAM W WHITELOCK PR D

Audebert J L Procid nee of Limbs (La proc dence d s m mbres) Rev f on, d gy éc el d'obsi 1930 xx 7 4

The term procidence s grifies the descent before the pres atation of a fetal part not belon ing to the pre entation. In the presentation of the shoulder the descent of the arm is a prolarse not a procidence Procidence of the f ot i very rare whereas procidence of the upper limb is more frequent According to Winchel prociden e occurs only once in 500 vertex presentations and 0 times in 100 face presentations. The d agnosis may be made by palpation The author reports a case of pro cidence of an arm complicated by contracted pelvis and hydramnios. Under these cond t one the upper passage was not completely obstructed by the pres entat on and procedence was favored by premature supture of the membranes and the di charge of the e cessive amount of amniotic fluid Other factors favoring procidence are faulty preventations small size of the fetus tian pregnancy and non accommodation. Fugagement depends on the degree and the site of the prociden e the size of the child and the procide ice of the cord. If engagement occurs in spite of procidence the head may be blo ked the pre ence of the hmb preventing rotation

Labor completated by procedence is often painful and slow. If the diagnosis is made early and the proper measures are taken the maternal prognosis is not unfavorable. In procedence of the cord the prognosis for the fetus depend on the speed vith which operation relie is apply nat. The proc dent 1 mb may be traumatized epiphyseal eparations may occur and plaques of gangerone may develop on the bead. The fetal mortal ty from all of the e-rais a smourest to 20 per ceft.

If the procedence occurs at the beginn n of labor and the amnott sac is not broken the voman should be placed in the Trendelenburg position. In many cases spontaneous reduction will then occur When the amnotic sac has broken the kinb must be put up above the corresponding parietal prominence. The author has devised a maneuver by which this may be accomplished either externally or internally. The elbow is sought to discover the direction in which it bends pressure i then made and the forearm is drawn up.

In other cases as in the case reported the condutions permit immediate termination of the labor by version. In the application of forceps care must be taken not to seize the limb with the instrument. In some cases basiotrips, is necessary. Publiotomy should not be attempted. Sometimes cassive as section is indicated. A tape should be placed on the procedent hand.

### Edgecombe K. Dystocia Due to Idiopathic Diiata tion of the Fetal Urinary Tract J Obst & Gynac Brit Emp 1930 xxxvii 832

In the case reported that of a woman thirty six pears of age the head of the child was easily extracted with the forceps but its body could not be delivered even with strong traction. A diagnosis of fetal asotics was made and the child extracted after perforation of its abdomen through the thorax. The mother recovered.

At autopsy on the child partial persistence of the primitive cloaca and an imperforate anus were found. The whole urnary system was dissected out and removed intact. The bladder was enormously dilated and the walls considerably thickened. It formed a tumor measuring 5½ in from side to side 4 in from above downward and 2½ in from before backward. It was divided roughly into three main parallel cavities and one accessory cavity. The central cavity represented the original organ while the two lateral sacculations carried the orifices of the ureters. The ureters were considerably dilated and tortuous. At the widest part their diameter was 0 of in. The kidneys showed a considerable degree of hydronephrosis. The uretra presented no

urethia

The author states that the only possible cause of obstruction in the urinary tract was the phimosis and it is doubtful whether that was sufficient to produce the degree of dilatation which had occurred He therefore attributes the condition to a defect in the musualture or the innervation

stricture or congenital abnormality but there was

marked phimosis with swelling of the lips of the

GOODRICH C SCHAUFFLER M D

Ferro Diaz L M Segmental Transperitoneal Cæsarean Section (La operación cesárea trans pentoneal segmentana) Repert de m d y cirug 1930 vu 515

In the segmental transperitoneal createan operation the incision is made in the lower segment of the uterus after the visceral and parietal peritoneum have been sectioned transversely and sutured to gether so that the peritoneal cavity is closed off After extraction of the fetus the wound in the uterus is sutured and then peritonized by bringing the artificial cull de sac down as far as po sible over it. The steps of the operation are well shown in illustrations.

The operation is indicated in absolute and relative contracted pelvis forehead or shoulder presentation and eclampsia. In fact the author regards it as preferable to the classical operation in all cases in which casarean section is necessary. As the peritoneal cavity is closed off there is less danger of infection If infection takes place it causes only a pelvic peritonitis and not an inflammation of the entire peritoneal cavity. Drainage is facilitated the condition being thereby rendered much less serious Cicatrization is easier in the lower segment because it is thin and not very vascular and is passive and at rest during the puerperium. The peritonization of the wound a very important step in the se mental operation is a further protection against infection

This operation is superior to extraperitioneal section of the lower segment because its technique is simpler and easier it causes less injury to the cellular tissue of the pelvis and therefore is associated with less danger of cellulitis and phlebitis and the p ri tonization of the wound is more perfect than in the extraperitioneal operation.

AUDRLY GOSS MORGAN M D

Esmann V The Course of Labor in Primipare from Forty to Forty Six Years of Age (Ucber den Geburtsverlauf bei Erst ebaerenden im Alter von 40 b s 46 Jabren) Ugesk f Læ r 1930 11 795

The author reviews the labors of sevents five primipare between forty and forty six years of age Thirty seven were spontaneous Four of the infants were dead. The average weight of the infants was 3 232 gm In thirty cases in which labor was ter munated by forceps there were three dead infants the average weight of which was 3 164 gm Cæ a rean section was done in one case. When one macerated infant and an infant weighing 1 900 gm which died during the course of labor are excluded in the calculation the infant mortality was 8 2 per cent One mother who had a complete perineal tear died eight days after delivery of pulmonary embolism and another with a large intramural fibroma in whom manual separation of the placenta was done died several hours after a forceps de livery with signs of cardiac insufficiency. In seven cases the placenta was removed manually Albu minuria was present in thirteen. There were four cases of eclampsia

The labor began with spontaneous rupture of the membranes in twenty one cases Siv of the seven instances of pelvic presentation were in these cases. In four of the six cases spontaneous birth of the presenting pelvis occurred only manual assistance being required. In one of the remaining cases of premature rupture of the membranes—a case complicated by a racbitic flat pelvis—labor was ter minated by exparena section and in six it was

term nated by forceps. In eight delivery occurred spontaneously. The neidence of operative interference was 45 3 per cent.

The author concludes that older prumpare should always be given the benefit of clinical treatment. He disapproves of the recommendation of Hirsch that they be del verde routinely by exasten section. He admits however that at least two of the infants which died in the cases reviewed could have been saved by exasten section. Sengre (G)

### NEWBORN

Pankow W The Effects of Pregnancy and Lab on tile Child (D E flu o S h ng rs h ft d G b t ul d K d) K! Heh sch 93

From 3 to 4 per cent of all children die in preg nancy or du ng parturition and another 3 per cedie during the first five days of life. The injuries depend on constitutional diseases of the mother espec ally syphilis and tuberculosis or are caused during labor. Pankow discusses first the important file which syphil's plays in the mortality of the fetus during pregnancy and of the child during the first days of life and u ges ant syphilis trationent of the mother during p egnancy. The earlier the treat ment is begun the more favorable the prognosis for the child since the infection does not pass from the mother to the child by nay of the placenta before the end of the fourth or the beginning of the fifth month of pregnancy.

Tuberculos's endangers the child during preg anany only very rarely. Infection through the placenta is e ceptional. After birth however the prognosis for the child is less favorable. Of the children of mothers with manifest tuberculo is—not counting non suble children weighing less than 2000 gm—from \$4,\$ to 82, per cent die within the

fi st year after birth

Among the most important of the toxicoses of pregnancy hich are responsible for the deaths of

infa ts is eclamps a

Of particular interest are the injures of the child caused dur g labor. These may be d wided into 2 man groups—pulmonary complications and birth injures. Congential pe immunia is not so rate as is gen. Ill, assumed. Bronchopneumonia from the aspiration of ammotic fluid is more frequent when the fl.d. is infected as the result of premature trupture of the am iotic sac. In 1171 autops 65 on newh rn infants. Schridde found 119 cases of this condition. Eighty five of the child en were dead

when born and 34 died of pulmonary complications from a few hours to two days after bi th

The most important of all birth injuries is skull Although the great majority of intra trauma cranial hamorrhages are symptomless there are cases in which the d agnosis may be made clinically from general or local brain symptoms In still other cases the bran hæmorrhage causes death Von Jaschke reckons the total number of children who die during birth from injury to the skull at i per cent of the total number born and as o 22 per cent when premature infants weighing less than 500 gm are deducted However as a large number of children die from such injuries hets een the second and sixth week of life the mortality from skull trauma is about 3 per cent. It is possible to lower the mortality from brain hamorrhages to only a limited extent since such hamorrhages occur even in spontaneous and easy labors H R Schulpt (G)

llend son Y Incompl to Dilatation of the Lungs
a a Factor in Ne nat 1 Mortality J Am M
1 1931 495

The author states that the mortal ty of newborn infants due to failure of respiration inadequate expans on of the lungs and pneumonia following atelectas can be apprecably decreased. An inhala tion of carbon diouted in oxygen for ten minutes three times a day for the first few days of life should be given every newborn child to insure full expans on of the lungs. The author bell es that this treat ment should be required by law.

By h stological examinations Cruickshank determined that nearly as per cent of the deaths of newborn infants are due to pneumonia. The time required for full lung expans on ranges from five minutes to two weeks. German observers have attributed incompleteness of lung expansion to in complete development of the nervous system the relatively slight react on of the respiratory center to the irritat on of carbon droude and insuffice ency of stimula acting upon the respiratory center due to inactivity of the muscular system of the infants. Lung expansion s'delayed longest in debilitated and

premature infants

Henderson describes the types of inh lators to be employed and the methods of adm instering the inhalations and discusses the percentages of the gas muture which are necessary for adequate stimulation. He urges that an inhalato be included 1 the equipment of all maternity hospitals and that provision be made for the use of an inhalator in cases of delivery in private homes. Maxins P Units M D

## GENITO-URINARY SURGERY

### ADRENAL KIDNEY AND URETER

Rowntree L G Greene C H Swingle W W and Pfiffner J J Addison's Disease J Am W Ass 1931 XCV1 231

In the last twenty years 115 cases of Addison's disease have been observed at the Mayo Clinic In the early days there was no specific plan of treat ment and the results were almost always uniformly poor Prior to 1920 desultory efforts at substitu tion therapy were made with occasional success Since then every patient with Addison's disease who bas gone to the Mayo Clinic has been given special consideration from the standpoint of substitution tberapy and considerable progress has been made Physiological experiments have shown with increas ing clearness that the integrity of the suprarenal cor tex is essential to life and has therefore given im petus to the search for a form of organotherapy that will provide complete substitution. The results of recent investigations justify the hope that a prac tical form of such treatment may soon be achieved

Several factors must be taken into consideration in the treatment of patients with Addison's disease (1) the nature of the underlying disease and its treat ment (2) the natural course of the disease (3) the general care of the patient (4) the treatment of symptoms and complications and (5) the results of

specific organotherapy

In 1920 a regimen was instituted in the case of the late Dr Muirhead who was suffering from Addi son's disease. It was decided to utilize epinephrin to the point of tolerance administering it subcuta neously by rectum and hy mouth repeatedly during the day and in the maximal dose which could be tolerated by each channel of administration In addition whole suprarenal substance or suprarenal cortex was administered by mouth

Fifty seven patients have been treated at the Clinic by the Muirhead regimen Thirty two cases were temporarily benefited and in 20 of these the immediate results were excellent. In some cases the period of improvement lasted for weeks in others for months and in 10 cases for periods of from three to seven years In 25 cases however the treatment had no beneficial effect. In general half of the patients receiving the Muirhead treatment showed some benefit a third responded with excellent re sults and a sixth were living after three years

In the last five years various other products pre pared from the suprarenal gland or closely related to epinephrin in either their chemical structure or their pharmacological action have been tried in the treat ment of Addison's disease Ephedrin introduced into medicine by Chen and Schmidt has an action like that of epinephrin but Rowntree and Brown

found that when it is used alone it is of no note wortby therapeutic value in Addison's disease It may be employed to cause elevation of the blood pressure as an adjunct to specific organotherapy When adrenalone an oxidyzed derivative of epine phrin was given in large doses to several patients with Addison's disease there were no untoward effects but likewise no striking clinical benefits Recently Szent Gyorgyi isolated an isomer of gly curonic acid from the suprarenal cortex. The pig mentation in Addison's disease seems to be con nected with this isomer hexuronic acid. However Szent Gyorgyi found that hexuronic acid did not prolong the life of suprarenalectomized dogs and seemingly was without a distinct therapeutic effect in 2 cases of Addison's disease. Kochler also pre pared an extract from the suprarenal cortex which he helieved was of value in certain cases of muscular asthenia This also was tried but was found to be of no value in Addison's disease

In March 1930 Swingle and Pfiffner announced the preparation of an aqueous extract of the supra renal cortex which would indefinitely maintain the life of hilaterally suprarenalectomized cats Suh sequently they reported that by the admini tration of this extract they were able to revive comatose animals that were on the verge of death from supra renal insufficiency to restore them to an apparently normal condition and hy daily injections to keep

them in a semblance of perfect bealth

The clinical results in the crises of Addison s dis ease in 5 cases have convinced Rowntree and Greene of the efficacy of this cortical hormone The dis appearance of anorevia the increase of appetite to the point of hunger the gain in weight and the definite euphoria were striking in all cases. As long as the preparation could be administered the results were all that could be desired

This cortical hormone is not yet available com mercially The problem of the preparation of an active accurately standardized commercial product that will be acceptable to the Council of Pharmacy and Chemistry of the American Medical Association is being studied. When this problem has been solved more accurate appraisal of the therapeutic value of this hormone will be possible

In addition to most assiduous attention to the details of general care 3 forms of treatment are of importance in Addison's disease (i) the treatment of the dehydration occurring during the crises by the administration of a solution of glucose 10 per cent and sodium chloride i per cent (this is unques tionably the best form of treatment in crises in the absence of a supply of cortical hormone) (2) the Muirhead treatment which is effective in a consid erable percentage of cases and under which a num

ber of patients have survived for a number of years and (3) the admin tration of the cortical bormone which is excellent in the crises of the disease proving effective as a rule vithin from forty eight to seventy to hours. Time alone will show whether this comb nation of treatment will sustain life and health over a number of year.

# M ckey W A Excr tion U ography An Experim ntal Inv stig tton of ti Properties of U oset ctan Gi g W J 93 9

Mackey reports eyper ments carried out on rab bits to determine the effects of uroselectan admin iste ed intravenously. Doses of 13,4 4 65 and ro gm vere adm instered by injection into the poster or ms ginal vein of the ear. These doses correspo ded to the dose per klogram of body weight used n clinical cases and the effects were judged from the general behavior of the animal the urine and the histolog call of dings in the kidnews.

None of the animals showed signs of distress when the d g w sinjected slowly. In one instance rapid injection of the d ug caused death but at necropsy no g osy abnormalities could be found.

Ex min t on of urine obtained by catheter at in tervals va v ng f om five hours to forty days after the 1 jection leided no evidence of renal damage due to proselect n except in the case of an animal

with pre e sting chronic neph itis

H stologracia e amination is as made of one kidney
twents four bours fire the injection. The kidney
we see the threather we studied from
twel to frity days after the injection. In no in
stance sthere any microscopic evidence of renal
jury. T check this finding unother see so fer
jurnets were made in he the mitochondrial
changes in the renal cells are investigated as the
most dicate a allable med of lesser seel in survethe nicet. No evidence of damage to the mitochondria e or pin in so animals who he de immedia

at by after a rapid njection. In the latter there is as
widespe ed dates on the mitochondria.

The rine of c ntrol rabbits injecte I with sodium o alate presented an abundance of albumin and

The r entgen find ngs corresponded accurately w th the rop y findings

The uthor believes that uroselectan might be entirely safe in evin larger doses than those advised projection in the property slowly.

ELMER HISS M.D.

Pocro D. L. p. iment t. Res. refues on the Aite n tt g. Functin f tt. R. nal Glomerult th. O. dina. y Conditions and Int. Pr. gnancy (Rech. prim. th. if f. nz. c. it. n. ted. gl. m. l. l. d. 1 od a cd. y dh. ) R. ti. d. g. 33 495

The author stud ed the alternating funct on of the renal glomeruli n rabbits with vital staining methods Under normal conditions from 50 to 60 per cent and during normal pregnancy, from 7 to 80 per cent of the glomeruli are active. Diminution of the blood pressure leads to a decrease in the number of function in glomeruli in non pregnant rabbits to 60 per cent. Removal of the kindry or the administration of caffein increases the number of active glomeruli to from \$5 to 90 per cent in non pregnant rabbits and to from 95 to 100 per cent in non pregnant rabbits and to from 95 to 100 per cent in pregnant rabbits.

Porcaro believes that during pregnancy as under normal physiological conditions not all of the glo meruli function a multaneously. The single glo meruli and probably groups of glomeruli function alternately. He concludes that the percentage of functioning glomeruli in a given state is proportional to the volume of blood flowing through the kidneys and to the work required of the renal parenchyma.

Peter A ROSI VD.

Taro i G Som Unusu l Forms of Ren i Tub r culosi (Sp l of rm rar d llatbul s le) t / / / d / g 3 3

Closed tuberculous of the ladney is rare as compared with the ulcerative and open forms. The author reports ten clin cal cases and discusses experimental work on ribbits. The closed forms are cut off from the e cretory passages. In some cases the occlus on occurs secondarily in the course of the disease. In others it is primary the foci in the renal parenchyma never breaking through to establish a communication with the urcters.

Some of the author's cases presented the so called cement kidney or massive tuberculos. In this form cavities filed with a chally substance are found throughout the kidney, the ureter is reduced to an almost fillorm cord ind cating that the kidney has not functioned for a long time and chally deposits in the first part of the ureter and in the pelv s show that tuberculous pelitis and urreinrit have been present. In some of the author's cases there a sa a combinate on of ceme t kidney and caseous hydronephrosis or pyoneph o is. I yone pt rosis seems to develop into cement kidney.

When tube culoss is brought about experimentally in rabb is with virulent cultures of tubercle bacill and the ureters are I gated the kidney parenchyma's oo undergoes degeneration and necro hooss but if the tuberculous foct are small and the bacteria not too virulent the increased intrapelvic pressure and compression of the kidney it sue tend to destroy the organisms.

Nearly all forms of renal tuberculosis are of hismatologeous origin and in the legining at least are histeral. Even in cases in a his only one kidney is apparently involved small mil ary focu undergo ng retrogression or sears sho ing that they have been present are generally to be found in the other kidney. If the initial tuberde is near a papilla at is apt to rupture: to the papilla and cause further dissemination of the disease but if it is

buried deep in the parenchyma it tends to undergo spontaneous retrogression and cicatrization

From the anatomicopathological findings in the author's cases of closed renal tuberculosis it was impossible to say whether the suppression of function of the tuberculous kidney resulting from closure of the ureter will have a good effect in all cases on the involution of the small disseminated tuberculous foci which are usually present also in the apparently normal kidney and have a tendency to undergo spontaneous retrogression. In the cases of persons dying of pulmonary tuberculosis examination of the kidneys at autopsy often discloses typical mihary tubercles containing giant cells or the presence of scars from such tubercles showing that the kidneys have been invaded although during life there were no signs of kidney involvement.

AUDREY GOSS MORGAN M D

Kretschmer H L and Hibbs W G Mixed Tumors of the Kidney in Infancy and Child hood A Study of Seventeen Cases Surg Gyne & Obst 1931 ln 1

The authors report seventeen cases of the so called mixed tumor of Wilms occurring in children In many of them the nature of the neoplasm was not recognized either at the time of operation or at the time of the first histological examination. The his topathological diagnoses included multiple cell sar coma myxomatous tumor alveolar round cell sar coma myxomatous sarcoma and hypernephroma

According to Thomas tumors of the pelvis of the kidney are rare in infants and children as compared with tumors of the renal parenchyma

While the kidney is not the only organ that may he the site of malignant disease in infancy and child bood it is easily the most frequent site of malignant

disease in the genito urinary tract

The most common primary neoplasms occurring in children are embry onal tumors of the lidney These tumors arise within the kidney itself and may occur in any portion of it. They compress the kidney so that it undergoes pressure atrophy. As the kidney takes no part in the tumor formation a layer of fibrous tissue is found hetween the compression atrophied portion of the organ and the neoplasm With the exception of the peripheral nodule of kidney which is not compressed the kidney and the adherent tumor cannot be separated without extensive laceration.

The most distinguishing feature of these tumors is their embry onal structure with a variety of tissue of abortive renal elements. The types and number of cells vary in different neoplasms. The tumors are usually made up of mycomatous tissue composed of masses of polymorphous nucleated cells in which are embedded gland or duct like figures resembling uriniferous tubules. The latter may be sparse or abundant. The embryonic tubules in a heteroge neous matrix are the most conspicuous features. There are both epithelial elements consist of small and tents. The epithelial elements consist of small and

large undifferentiated cells which are often spoken of as epithelial cell nests and embryonal tubules The connective tissue elements consist of loose stroma undifferentiated round cells and striated and non strated muscle fibers These elements are most irregularly mixed. The tubules are in many stages of development and usually consist of single layers of cuboid and columnar epithelium although occasionally there are several layers resting on a thin hasement membrane Most of the tubules are round but some of them have horseshoe shaped lumina which may be irregular in outline tuhules may occut in dense lobular clumps sepa rated by only a few cells or they may he present as a single tuhule in solid masses of undifferentiated cells which divide rapidly Occasionally the lumen of the tubule may not be visible and other tubules in the process of growth may he indicated by a clumping of cells in the central portions of the masses of un differentiated cells The chief features of these cells are their polymorphism ahundance of mitotic figures and dense chromatin They may have frag mented nuclei and but little cytoplasm. The stroma hetween the masses of embryonal cells is my voma tous and delicately fibrous The epithelial cell nests which stain deeply are often sharply defined from undifferentiated masses of cells which are more round and contain less chromatin and fewer mitoses The fibrous hands which group the tumor cells in rather large clusters contain cells showing spindle shaped nuclei which are usually sparsely distributed

Another element of these tumors is striated mus

Recurrent tumor growths following surgical excision have all heen histologically similar to the

original tumor Extensions and metastases of these tumors are

exceptional unless the original tumor is large

The oldest patient whose case is reported by the authors was six and a half years of age and the youngest was three months

Hamatura is rare. In all of the cases reported a palpable tumor was present. In most of them the tumor was discovered accidentally and was there fore the first sign. Moreover, the presence of a tumor was about the only complaint. In only three cases was there a history of trauma. As a rule the patient is first seen after the tumor has reached an enormous size.

In all of the cases reviewed there was a very

definite secondary anamia

The problems of dagnoss and the study of renal function in these cases do not differ from those in the adult. In every case a cystoscopic and pyelographic examination should be made. Intravenous pelographin may be done before the cystoscopic examination and its results checked by pyelograms made from below. In the cases reviewed cystoscopic examination was negative. In one case the pyelogram showed only a few minor changes in the calyces due to clubbing there was no compression or filling.

defect such as is generally associated with a malig nant tumor

In many of the cases the tumor so completely filled the kidney pel us that a pyelogram could not be obta ed This finding may sometimes be con fused with a block at the ureteropel c junction d e to a large hydroneph osis associated with kinking In one of the cases in which the tumor was rather soft and slight fluctuation vas noted the possibility

of hydronephrosis was considered The pyelog am is of value in the differentiation not only of types of kidney lesions but also of lesions

of the l er and spleen

The importance of determining the presence of a second kidney and of estimating its function before neph ectomy is just as great in children as in adults The poss bility of hilateral involvement must al vays be borne in mind Of the seventeen cases reported b late al involvement was found in two (12 per

The prognosis of m ed tumors of the Lidney in fancy and childhood is unfavorable in the seven teen cases reported there were sixteen deaths C TRAVERS S PITA M D

After a general discussion of mixed tumors of the kidney the author reports two cases The first case as that of a woman forty four years of age. His tolog cal evamination showed the neoplasm to be made up of areas of hypernephroid sarcomatous leiomyomatous and rhabdomyomatous ti sue It p obably originated from aberrant rests or f om un diffe ent ated mesodermal tissue of the primordial kıdnev

The second case we sethat of a woman of suty fi e yeas Histolog cal examination showed the neoplasm to be made up of hypernephroid ango rcomatous leiomy omatous and rhabdomy o-matou t ssue and c rt lage. The author believes that this tumor all o was of embryological origin

AUDR GOSS MORGAN M D

The authors eport e per ments n decapsulation which they pe formed on dogs. After the operation they n ted first a period of change in the epithelium of the tubul s and glomeruli with hamorrhage This was followed by abundant proliferation of the inter t bular co n t ve t ssue which brought about the format on of a new capsule with a considerable de gree of scleros s of the outer layer of the corte vessels of importance were formed between the k dney and the surrounding tissue as Edebohls claims Ne th r as the newly formed capsule made up of very v sc lar loose connective tissue such as was described by Ed bohls Instead it was formed

of compact fibrous tissue arranged in layers and con taining almost no vessels at all The findings there fore failed to support Harrison's theory of decom press on and Edebohls theory of arterialization of the kidney

The authors believe that the newly formed capsule makes the condit on of the kidney worse but that in hæmolytic nephralgia decapsulation may give tem porary good results because of the decompression it produces AUDREY GOSS MO CAN M D

### BLADDER TRETHRA AND PENIS

Ch uvin E The Treatment of Ureth orectal Fis tute by Interpr th ectal Myorrhaphy of the Lev to Anl (T tement d fit less u stro t le pt l p l myor phi i terurst ect l d stel r) Presse méd Pr 93 xxx 1763

Methods of closs g urethrorectal fistulæ include simple cleavage and closure of the two orifices and cleavage with separation of the urethral and rectal lesions and an overlapping of the two walls which requires lowering of the rectum (Young and Stone) or torsion of the rectum (Ziemhicki and Van Oppel) In these procedures the inferior hamorrhoidal nerve Interposition operations include the opera tto of Michon in which the perincal skin is utilized that of F1 lle with interposition of the pouch of Douglas and that of Vitrac in which a flap of fat is employed Young and Stone combined extensive lowering of the rectum with myorrhaphy of the levator an

The ope ation described by the author requi es a urethral lumen of a sufficient cal her If necessary the lumen is enlarged by dilatation or urethrotomy The first stage of the operation is a cystotomy for drainage Myorrhaphy is performed several days later After rectal cleansing an incision is begun at a point slightly medial to one of the ischial tuber osities curved forward to within from 2 to 4 cm of the symphysis and terminated at the opposite tuberosity With the left index finger in the rectum and a catheter in the urethra the rectum and urethra are separated up to the p ostate. The finger is then removed from the rectum and after a clean glove bas been put on t o laye s of catgut are introduced exterior to the mucosa to close the urethral opening Closure may be effected by transverse longitudinal or circular urethor aphy depending upon the les on The rectum is then dilated with a vaginal speculum and the anus pulled down with the forceps so that the anterior rectal wall is brought into viev. The rectal opening is closed vith two layers of trans erse catgut sutures and the field then washed with ether The freed lateral horders of the le ators are sutured to each other in the midline. With the rectal open ing pulled as far below the muscle as possible a few fine sutures are introduced to join the rectum to the muscle and the urethra to the muscle The angles of the mess on are partially closed If the rectal lesion re opens it can he treated in the same way as an o d nary rectal f stula CURTIS NELSON M D

Bagnoli N Cases of Epithelioma of the Penis (Sopra alcum casi di epitelioma del pene) Arch ital di urol 1930 vii 221

The author reports nine cases of epithelioma of the

Two of the patients were between thirty and forty years of age two between fifty and sixty three between sixty and seventy and two between seventy and eighty Phimosis seems to be an important exciting cause. It was found in three (33/) per cent) of the cases reviewed. Also in three cases there was a history of syphilis. Supphilis and carcinoma frequently coexist. A carcinoma in a syphilite may be diagnosed from certain signs such as woody hardness and a hard extroverted peripheral horder of the ulcer involvement of the glands and cachexia. In some cases specific treatment is necessary for the differential diagnosis.

In 44 per cent of the cases reported the site of the lesion was the prepuce in 33 per cent the glans and

in 22 per cent in the urethra

In seven of the cases the course and duration of the disease were about the same. In two cases the general condition was so poor it was impossible to obtain reliable information the patients gave thirty and forty days as the duration of the disease but the advanced state of the carcinoma indicated that the lesion had heen present longer

The tumor may hegm as an ulceration or a small nodule resembling a wart. It may appear on any part of the organ. In structure, it is a pavement cell epitheloma. It may present a caulidower appear ance or develop in the form of a carcinomatous ulcer with great infiltration of the base and edges. The most frequent sites of origin of the tumor are the prepuce and glans. When the entire peniss invaded it may hecome greatly enlarged but otherwise it remains of normal size. The glands are almost always involved. Their involvement may be inflam matory, or neoplastic.

The treatment depends upon the nature and extent of the tumor and the patient sage and general condition. Superficial forms may be treated with the roentgen rays or radium but when ulceration or metastases are present the penis must be amputated.

and the glands enucleated

The author operated in seven of his mine cases. Circumcision was performed in one case amputation of the penis alone in three cases and amputation of the penis and enucleation of the glands in three cases. In one of the cases which was not treated surgically operation was contra indicated by the poor general condition and the presence of pneu monia. In the other case the patient refused operation.

In the surgically treated cases there was one death a mortality of 14 2 per cent. One of the surgically treated patients was found to he in excellent condition when re examined twenty months after the operation. The others were not seen again after their discharge from the hospital

AUDREY GOSS MORGAN M D

### GENITAL ORGANS

Barringer B S Carcinoma of the Prostate Ann Sur 1931 xcut 326

There is no general agreement among urologists as to the best therapy for carnioma of the prostate The author believes that the possibilities of radical surgery are exhausted as certain features in the natural history of the disease preclude the effective application of this form of treatment and that there has been gradual improvement in the control of the condition by irradiation

As pelvic adenopathy occurs in a very high per centage of cases of carcinoma of the prostate cap sular infiltration and venous thrombosis by tumor cells often take place early and primary or secondary involvement of the accessory glands at the hase of the hladder which will prevent successful surgical treatment of the disease is often present when the

patient first seeks advice

The author tabulates the age incidence and symptoms in a series of 280 cases of carcinoma of the prostate. The symptoms are not easily differ entiated from those of beingin hypertrophy and both conditions are often present at the same time. Carcinomatous nodules are easy, to miss when they are covered by ordematous tissue. When in doubtful cases the ordemain reduced by a cycle of high voltage. Yay irradiation the diagnosis is easier the hard cancer tissue then being sharply defined from the lastic enlarement of the benign hypertrophy.

Theintial symptoms of carcinoma of the prostate are chiefly urinary symptoms and pain. The 2 most common urinary symptoms occurring early in the disease are frequency and difficulty in urination. Others which are common are nocturial retention hamaturia urgency and incontinence. The pain consists of pain on urination backache pain down the thighs and legs and pain in the lower part of the abdomen and pelvis the rectum and the perineum Occasionally, there are no urinary symptoms in well advanced cases of prostatic cancer.

Early diagnosis calls for routine examination of the prostate in all men over fifty years of age. Per sistent frequency difficulty in urmation nocturia and retention in the case of any patient of cancer age calls for a most careful search for prostatic carcinoma.

The difficulty of accurate diagnosis of prostatic neoplasms has been considerably decreased by the adoption of hiopsy by needle puncture and aspiration.

In the treatment by urraduation glass seeds of radon low voltage and then high voltage \text{ ray arradiation} the radium element pack, radon filtered by platinum and gold seeds of radon have heen used alone and in various combinations. In most cases of prostatic carcinoma a much larger dose of radium than has been employed heretofore a dose comparable to that used for the control of carcinoma of the bladder is necessary. The results of radium implantation in tumors of the bladder have con-

sistently improved and are considered by the author to be quite superior to those obtained by operative resection

A tissue dose between 10 and 15 skin crythema doses del ver d to the tumor is usually necessary Cystotomy should be done obstructive port ons

f the prostate removed with cuttin forceps or the autery and the entire tumor whatever its limits implanted with 2 mc seeds of radon

Sup apubic expo ure is better than the use of the perineal route as it leaves the perineum infact to serve as a protective barrier to extension of the tumor

C TRAVERS STEPTEA M D

R miti Z Pimary Walignant Tumo a of the
Ectop Test cle (Sulle opl se malga p m ta
d t t i t p ) A h ild i 193 1

Romits reports a x cases of cancer of undescended testicles 1 of which were abdominal and four ingu nal. They were fund among forty mal gant turn 3 of the test cle seen at the Surgical Clinic of Bologna in the period from 1920 to 1928. Very few cancers i and must testicles have been reported.

The d scu on of the pathological anatomy of the tumors supplemented with photomicro graphs. The author divides the neoplasms into two g oups. The three nith large cells he calls seminal ous op their omata. Tumors of this type are pure as anomatic organization from the cells of the adult sem interious tubules and not i om the epithelium of the excreto y ducts or displaced embryonic resist. The three of he tumors organized from embryonic issue. They we explainly divide into solid and eystic parts and showed the histological character.

isk teo of embry o ds or teratoids
In cancer of an inguinal testicle there is proges we ave tiling a the segment agent. The testicle become la ge and less mobile Paun occurs sponta neou ly and on p essure. In some cases the growth is apd and accompanied by a feeling of tension and by pa in a distance along the auterior surface and by pa in a distance along the auterior surface the appointment of the properties of the professional part of the appointment of the appointment of the profession of the turn of the transition of the turn of on pachy sarrail is and theretious

of the tumo 1 om pachy vaginal its and tuberculous syphilite tumo 5 more difficult than when the te ticle is in the normal location

In cases of cance of an abdom nal testicle early diagnosis is very difficult. There is vargue abdominal pain it adiating to the lumbar or sacral reg on or perineum. When the tumor be comes large enough to cause pressu e there may be various intestinal or gento unnary symptoms. Reentgen examination of the d gest ve and genito unnary tracts is of great aid in the chapnosis.

In cancer of an abdom nal testicle the prognos s is very unfavorable as the pat ent gene ally does not come to treatment until tate. In cancer of an inguinal testicle the chances for early operation are about as good as when the testicle is in its normal nosition. In the treatment of cancer of the abdominal testicle the roentigen rays and radium are of value. The only p eventure treatment of mal guant degeneration of the undescended testicle is rad call incompletely descended testicles. The author believes this is not justifiable but that an inguinal testicle may be removed if radical operation is necessary for the hermia which often accompanies it. Account Goss Monoa M.D.

Speed k Aerocele of the Scrotum S g Cl V th 1m 193 9

The author reports a case of aeroccle of the scrotum due to a rupture of the rectum which per mitted air to escape into the ischioricial for a burror forward into the subcutaneous tieues in between the dartos and shim and spread up into the subcutaneous tissues along the entire if gits ide of the body and down along the right the file to the ankle

Incis on and drainage of the ischiorectal fossa was follored by recovery

ray examinat on showed a fracture of the right transverse process of the fifth lumbar vertebra a fracture of the sacrum close to the articulat on with the right illum a fracture of the ischium on the right side and a fracture of the superior ramus of the outs on the right side.

J SYDNEY RITTER M D

Hagner F R St litty in the Vale S g Gy

In 1 om 16 to 50 per cent of childless marr ges the male is respons ble for the sterilt J. In some cases the cause 1 supermia or failure of elaboration of semen due to developmental defects which cannot be remedied. In some cases the spermatozo are few and have little or no movement. Other causes of male sterility are anatomical ahnormalities such a hypospadios and fattal and stricture of the ucethra. When in cause can be found the condition must be attributed to lack of aff nity between the main and tiet unian. When copulation is impossible rehaust on of the sex glainds from prin gred and frequent overstimulation. This may be cured by byten case the

Bilateral undescended testudes should be operated upon long before puberty. Bilateral (unberculos so it he testudes and epididymis is hopeless. Bilateral gumma of the testudes may respond to specific treatment. The author cites the case of a man with bilateral gummata as large as a human head who begot seven children after receiving apecific treatment.

Inflammation of the prostate may block the equalitary ducts and prevent the escape of the spermatozoa or destroy them. This often responds well to treatment True bilateral orthits from mumps causes permanent steril by The most frequent cause of ster lity in the male is bilateral gonorthocal epiddymnits in which the sear a sure prevents the egress of spermatozoa especially when

it involves the globus minor. Martin cured sterility due to this cause by anastomosing a patulous vas with the globus major The author opens the vas passes a tear duct probe followed by a strand of silk worm gut to make sure that the vas is patulous examines the secretion for live spermatozoa and if these are found performs a lateral anastomosis with silver wire sutures. The first suture is put in the lower end of the incision in the vas a deep bite being taken as this is the anchoring suture for the operation and the obstruction. The suture is then anchored firmly in the lower end of the elliptical incision of the epididymis. Two lateral statches are put in fairly deep so that they include some of the tubules and then the last and fourth stitch is in troduced through the upper end of the incision in the epididymis with care not to occlude the vas The operation is always performed under general anæsthesia. Beading of the vas indicates occlusion and inoperability Failure of the first operation does

not contra indicate a second operation after a year Spermatozoa may appear after from one month to a year

It is important to stop all bleeding and to avoid incising the vas too high. The author always does a balateral operation. In three cases in which he per formed an anastomosis directly into the testicle the result was a failure. He reviews fifty five cases in which sixty seven operations were performed. In twenty, the condition was discovered at exploratory operation to be inoperable because of occlusion of the vas or absence of spermatozoa in the epidaly mis. In three, the operation was performed too recently to warrant an opinion as to the end result. One patient cannot be traced. Of the thirts one others inneteen (6x 3 per cent) were cured. Twelve of the inneteen cured patients begot from one to six children after the operation. In the case of one impregnation was followed by a miscarriage.

BENJAMIN F ROLLER M D

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Lé i A Layan F Lievr J A and Weilt J A Case of P ogressive Oste t s Fib osa Cystica Treated by Parathyrold etomy (Un a do tête fb kyst qe a ê l tra pr g si e tra tê p le pa thy de tome! B ll i mêm S c m d d k p d P 93 xl 1 88

The authors report the first case of osterus fibrosa cystica to be treated by parathyroidectomy in F ance The patient was a man thirty one years of are who had emoved perfect health until the onset of the illness four yea s prior to the operation The condit on began with locali ed pains of a transient nature in the left leg. At the end of a year pains o curred al o in the right leg and made walking and standing difficult. In the third year of the iliness the entire skeleton was involved by erises of transient pan there was marked weakness and bony tumors opeared on the left ulns and the tibix Several fractu es of the long bones occurred follo ving Ight trauma During the summer months when the patient was exposed to the sun improvement as noted Late in the illness he suffered two attacks

of renal colic

The finding of laborator, tests were those typ cal of osteitis fibro a cystica. The blood calcium was always from double to tuple the normal and the urine contained calc um koentgenograms of the bones showed progress ve diffuse decalcification nd the hanges of bony tructure commonly asso ciated with oste t s fibro a cystica. The diagnosis of oste tis fibr sa evatica was confirmed by two hi tological exam nations

D spite va ed med cal treatment the illness became so g ave after fou years that the egion of the parathyr ids was expl red. The right sup r or na atheroid gland which was the size of a lentil was e tirnated. It contain d an adenoma

Afte the operation th re was evidence of tetany for a sho t time but three months later the pat ent had rega ed his strength and was able to walk with crutches the pa as had ceased the blo d calcium vas normal and the calcar u is had disappeared Sixteen months afte the operation there were curvatu es of the long bone and spinal deformity due to compression of the vertebræ but the recal enfication of the bones was more advanced and the patient was in health I MES B M SON M D

Scl nabel T G Hype p rathyr idism with O te itis Fibro a Cyst ca (P athy o d Hype plasia) M d Cln A rth Am 93

As part of a cl mc given for the fourth year class n medic ne at the Un vers tv of Pennsylvania the author presented a man of twenty six years who was greatly deformed by osterus fibrosa cyst ca Practically every bone in the patient's body had been in volved and numerous fractures bad occurred. The patient's beight was only 45 in whereas before his illness he was 6 ft tall A photograph taken dur ng his seventeenth year showed that he was also well developed

The condition began when the patient was twenty one years of age. The first sign was a swelling of the right side of the raw following an injury received in boxing Soon thereafter the right patellar ligament was ruptured in a fall on the ice A roentgenogram taken at that time showed beginning bone changes around the knee which were suggestive of chronic eystic ostertis. The patient soon began to bave gen eralized body pains for which he could get no relief and suffered from nausea with occasional vomiting A few months later he had a spontaneous fracture of the left femur and in the fall which resulted received numerous other fractures \ ray examination at that time showed besides the fractures a generalized fibrocystic osteitis with appearances at places sug gesting giant cell tumor formation. The biopsy diag nos s was g ant cell tumor

After he had sustained still other fractures the patient vas admitted to the Philadelphia Hospital in June 1920 The blood showed a mild anamus and the white cell count ranged from 16 400 to 18 400 The blood chole terol was 130 mgm and the non protein mit ogen content of the blood 42 mgm per 100 C CID The blood caleium averaged about 15 mgm and the phosphorus ranged from 2 7 to 4

mgm per 100 c cm

At operat on p rformed in Pebruary 1030 a large pa athyro d tumor was found and removed. After the one ation the blood cale um dropped to 11 5 mgm but gradually returned to 13 5 mgm. In June 1030 add tional parathyroid tissue was removed The blood calcium then drop; d to 5 5 mgm

The author stated that the les on of the parathy roids was probably a simple hyperplasia but may

have been adenomatous

Clinical and e perimental evidence suggests that the relation of the parathyroids to osteitis fib osa cystica is one of cause and effect. Whatever the explanation the parathyro d factor is harmful and op eration on the parathyroid seems logical especially a it has been follored by marked improvement. In some cases tetany has developed after parathyroid extirpation but as a rule the administrat on of vios te of and calcium by mouth and in extreme cases of cal jum intravenously has offset the effects of the low postoperative blood calcium

The patient whose case was discussed by the au tho wa releved by the operation on the para thyroids to such an extent that no more patholog ical fractures occurred and he was able to carry on an occupation Robert V Funsion M D

Shands A R The Regeneration of Hyaline Cartilage in Joints An Experimental Study Arch Su g 1931 vm 137

Shands reports experiments performed on fourteen dogs in which various joints were cut bruised or otherwise traumatized the animals were killed from one to twelve weeks after the injury and the defects were then examined macroscopically and micro

scopically

In specimens in which the superficial layers of cartilage had been pared off microscopic examina tion showed regeneration of hyaline cartilage filling in the defect after from four to eight weeks specimens in which the defect extended down to the bone matrix definite regeneration with the presence of new deeply stained large multinuclear cartilage cells was found after from four to twelve weeks In specimens in which the defect extended through to the subchondral bone fibrous tissue con taining cartilage cells was found in the defects after twelve weeks. In cartilage bruised by pounding there was little or no gross evidence of trauma after four weeks and microscopic sections made at the end of that time revealed regeneration of both fibro cartilage and hyaline cartilage

In studies of the knee joint it was found that the repair process varied somewhat in different regions Regeneration of cartilage was apparent in three of eight defects in the patella four of fourteen defects in the femoral condyles three of sixteen defects in the condylar ridges one of ten defects in the inter condylar spaces and two of eleven defects in the

articular surface of the knee

The literature shows a difference of opinion as to whether there is a definite covering membrane over articular cartilage which can be called a perichon drum. In the author's studies such a membrane was found across all or most of the cartilage border in four of fifty nine good sections. In twenty six other slides it was demonstrated on the margin of the cartilage. No perichondrum was found in the central portions where there was pressure from weight bearing.

In general the hest evidence of regeneration of hyaline cartilage was found after twelve weeks and very little hefore four weeks. The sequence of repair tissues was (1) fihrin (2) granulation tissue (3) connective tissue (4) connective tissue cartilage (5) fibrocartilage and (6) new hyaline cartilage.

WILLIAM ARTHUR CLARK M D

Cecil R L Nicholls E E and Stainsby W J
The Etiology of Rheumatoid Arthritis Am J
M Sc 1931 clxxxx 12

In the authors opinion rheumatoid arthritis is a chronic infection due in the great majority of cases to a specific type of streptococcus This view is supported by the fact that the patients almost in variably give a bistory of numerous previous infections the clinical course of the condition is strongly suggestine of a chronic infectious disease and the characteristic joint changes are essentially those of an inflammatory lesion

The frequent presence of streptococci in the vari ous foci of infection associated with rheumatoid arthritis suggested that these organisms might he a cause During the last three years the authors have conducted an intensive hacteriological study of rheumatoid arthritis on the Second Medical Division of Bellevue Hospital and in the Cornell Clinic New York Of 154 cases in which blood cultures were made according to the authors method 623 per cent yielded a short chained streptococcus In the controls taken from normal persons and persons suffering from degenerative arthritis the bacterio logical findings were negative. Of 40 cases of rheumatoid arthritis in which cultures were made from an affected joint a short chained streptococcus was recovered in 673 per cent

The morphological and cultural similarity of the streptococci recovered from the blood and joint of patients with rheumatoid arthritis suggested the possibility that these organisms were biologically identical. The serums were therefore tested against several typical strains of streptococci. It was found that the serum of practically every patient with well developed rheumatoid arthritis gave a strongly positive agglutination with the typical strains of streptococci. With recovery from the symptoms of arthritis these agglutinations disappeared

When a streptococcus of the type recovered so frequently from rheumatoid patients was injected intravenously into rabbits there resulted a subacute or chronic arthritis which closely resembled the same disease in man Moreover the same organism was frequently recovered from the blood stream and from the affected joints of the arthritic rabbits

The authors believe that the development of rheumatoid arthritis requires (1) a focus of infection (2) a streptococcus bacteræmia and (3) susceptibility to streptococcal infection of the joints. The exact nature of the susceptibility is not yet understood.

The observations reported tend strongly to con firm the theory that rheumatod arthritis is an infectious disease caused in a high percentage of cases by a specific type of streptococcus which after localization in a primary focus is discharged from time to time into the blood stream and estah lishes metastatic infections in the joints

ROBERT C LONERGAN M D

Godman E A and Akerson I B The Pathology Associated with Rupture of the Supraspinatus Tendon Am Surg 1931 xcm 348

Of roo shoulder specimens obtained in 52 con secutive autopsies evidences of rupture of the supraspinatus tendon were found in 30 Exposure of the tendon was made through the subacromal hursa All of the sublects were over forts six years

of age and the majority were between sixty and

eighty years Thirty seven were males

The lessons have been attr huted to (1) the traum tic ruptu e of tendon fibe a followed by im perfect repair ( ) the defects left by so called calc fied depos ts (a) necros s or some other diffuse pathological process of the tendon the phenomena which in other joints are known as arthritis and (4) att ton

In Codman s opinion upture of the sup asp natus tendon is by far the most common cause of industrial houlder d sah lities and complete rupture is a more painful mo e serious and more disabling les on than fractu e of the bumerus or dislocation of the shoulder Rupture of the sup ast matus tendon is the usual cause of traumatic subac omial (subdel to d) bursitis

C dman has sutu ed more than 40 ruptures of the sup aspinatus tendon. He believes that the lesion is due t a traumatic cause with an unde lying degen e at we process in the tendon which makes it prone to rupture

The seq ence of events is somewhat as foll ws

At answerse ruptu e occurs across the breadth of the tendon near its insertion

2 Ret ction of the muscle causes the rent to assume the shape of a triangle with its base on the

tuberos tv 3 A feeble effort at repar cause rounding of

the tr a gle in the horizontal plane and the forma tion of a falc form edge in the vert cal plane

A The t g of tendon rema ning on the tuberosity undergoes gradual absorption

The po t on of the tuberos ty to which the tendon w s attached recedes

6 Fbo tilage is formed on this surface to peetf ct nas the tuberos ty passes in and out u de the cr mion

In c nclus on Codman rev ews the factors in f a d against the theory of a traumate origin f the rupture and those suggesting that the lesion is the result of calc fied deposits necrosis of constitutional origin and friction

RO R V FUNS ON M D

Osteomata of the forearm actually of the elbow a e f equent after traumata especially fractures and dislo at as and may arise in any of the muscle group origins or insertions. Their frequency at the elbow seems to be due to the numerous p nts of ossification in this region. The osteoma is a bony graft which takes well and grows quickly follo ing any trauma which liberates osteocartilaginous t ssue The new bone format on is due not to pe osteal tearing but to the transplantation of bone cells contan g young elements to an excellent culture me dum for growth

O teomata at the elbow are of all va eties cor responding to the epiphyses-osteomata implanted on the bead of the radius the b c p tal tuberosity the ep condyle the epitrochlea and the olecranon and spreading out into the muscle mass of the brachialis biceps triceps and supnator bevs Free oste mata are those which bave lost their points of attachment

The author reports two cases of osteomata of the clbow

As the format on of osteomata may follow a very sight les on especally of the head of the radius an incomplete fracture or a fissure massage and forced mot one are cont a indicated in the t eat ment The elbo v should be immobilized with the forearm flexed KELLOGG S EED M D

Smith N R Th Interverteb | D k B t J S & 93 358

To determine the structure and nutrition of the interve tebral disks the variations they undergo from infancy to old age and the d eases which affect them the author studied the intervertebral disks obtained at autopsy from the bod es of fifty s ven pe sons rang ng in age from one to e ghty si The disks were sectioned horizontally and vertically and examined both macroscopically and microscop cally

The intervertebral disks are di arthrodial jo its with a cavity filled with villi a fibrocartilag capsule and cartilaginous plates similar to art cular cartilages They are nourished by blood channel which penetrate the cartilaginous plates from the marrow of the vertebral bodies They allow a small degree of movement in all directions between the

ve tebræ

In the first to decades of life they a e convex and h ghly elastic The fibers are white the plates are thin translucent and bluish white and the nucleus is amorphous gelatinous colo less and sharply defined In later decades the disks tend to become

coarse melastic and discolored

The les ons of the disks are fibrous cartilaginous calcareous bony fatty necrot c and liquefacti e The roentgenogram may show thinning and flatten ing peripheral calcification central calcification ohlteration by ossificat on d m nished transi rency with infection of the adjacent vertebræ and ab normal biconvexity of the vertebral body such as is found in osteoporos's carcinoma and comi ress on fracture Cases of scoliosis and kyphosi sbow thinning and flattening with or without o teo artbriti or osteochondritis Peripheral calcification may occur th or without osteo arthritis In a case of bealed tuberculosis complete oss fication was seen ELVEN J B HEIS M D

( 1 & J and Galland M A Clini 1 Study of Twenty Fou C s of Nu lear Ve tebral H nt nd Th ee Cases of Eplphysiti (Et de l q d 4 d h le e teb l td 3épphy t ) Rev d th p 03 x x 73

After referring to Schmorl's recent anatomical study of the interve tebral nucleus pulposus the authors state that so called hernia of the nucleus is not an anatomical curiosity but the underlying cause of kyphosis and painful vertebral weakness in adolescents. Among roentgenograms of the spine made in the cases of 200 patients over fourteen years of age who complained of back symptoms the authors found 26 showing evidence of hernia of the nucleus pulposus or epiphysitis and of the 26 patients with these conditions 23 showed a kyphosis or complained of pain in the back.

Vertebral epiph; satis is characterized by a kypho sis which is frequently painful and often mistaken for Pott's disease. The lateral reentgenogram shows precoclous points of epiphy seal development nu merous dark spots and often evidence of loss of bone

density in the subepiphyseal areas

Nuclear herma penetrates the hody of the ver tebra and progressively infiltrates it destroying the cancellous tissue. The size of the herma is limited by the resistance of the surrounding bone. The central symmetrical type formed along the path of the notochord are believed to be of congenital origin Sometimes the hermation is star shaped and extends in an anteroposterior direction. In such cases it involves the disk tissue rather than the nucleus

After the age of twenty two years it is very difficult even with the aid of excellent roentgenograms to differentiate between epiphysits and nuclear hernia but it is generally agreed that the painful hyphosis of adolescents is almost always caused by

nuclear hernia rather than by epiphy sitis

The authors cite a case in which epiphysitis was found at the age of fifteen years but eight years later the roentgenogram showed numerous irregular hernize of the disk tissue and no evidence of epiphyseal disturbance or absorption. They conclude that epiphysitis and nuclear hernize are roentgenological manifestations of the same disease namely the kyphosis of adolescents.

Kellogg Speed M. D.

Mantovani D Calcification of the Nucleus Pul posus of the Intervertehral Disks (Calcification du nucleus pulposus des disques intervertébraux) Arch franco belges de chir 1929 1930 XXXII 488

Calcification of the nucleus pulposus described for the first time by Calve and Galland in 19 2 has been found in thirteen other cases since then including a case seen by the author and reported in this article

The nucleus pulposus is not visible in the roent genogram unless it is calcified when it appears as a lenticular opaque shadow of irregular thickness but of a granular aspect which is situated in the posterior portion of the intervertebral disk and is clearly differentiated from the surfaces of the vertebral bodies

The etiology and pathogenesis of the calcification bave not heen established. According to the findings of Nicotra the condition is a localized infectious intervertebral chondroneuritis belonging in the same classification as infectious intervertebral spondyl arthritis with the radicular syndrome. This theory

is accepted by Lyon Ciongo and Breton who be lieve that tubercosis typhoid fever or influenza may he the causes Other causes suggested are traumatism (Borsony and Pulgar) and a disturbance in the development of embryonic elements of the dorsal cord (Calve) The resorption of the calcifica tion observed by Nicotra the presence of fever and the variable age of the patients suggest that there is an infectious lesion especially since the pains of the radicular type the paræsthesia and the mus cular weakness which are part of the syndrome indi cate a change in the spinal nerves and are not satis factorily explained by the discovery of calcification in the nucleus pulposus. In some of the cases the lesion was discovered in the course of a roentgen examination made for some other condition

Mantovani's case was that of a man forty nine years of age who a month previously had fallen from the top of a hayloft and landed on he back After twenty days in bed he consulted the author on account of dorsal pains with lateral irradiation and a general feeling of exhaustion Examination revealed a dorsal kyphosis with a marked curvature and decided rigidity of the spine which was painful Roentgen examination disclosed a on pressure marked scoliosis with its convexity toward the left in the region of the eighth and ninth dorsal verte The eighth and ninth dorsal vertebræ were flattened in their right halves. In the intervertebral space hetween the ninth and tenth vertebræ there was an opaque lenticular formation independent of the disk which was interpreted as due to calcifica tion of the nucleus pulposus. An analogous image of more doubtful identification was found in the space between the eleventh and twelfth dorsal vertebræ There was also an arthritis deformans with the formation of parrot beak osteophytes and thickening of the vertebral ligaments The trau matism was of too recent date to be considered the cause of the calcification but the pains could easily be explained by the injury and the arthritis of the spine

Mayer L Fixed Paralytic Obliquity of the Pelvis J Bone & Joint Surg 1931 till 1

Fixed obliquity of the pelvis is a contracture manifested by a persistent downward tilt of the pelvis on one side even in the recumbent position when the legs are held parallel with the midline of the hody. The deformity may be classified according to the site of the contracture into the following types (1) adductor (2) adductor (3) both abductor and adductor (4) spinal abdominal and quadratus lumborum and (5) combinations of 1 2 0 13 with 4

In the early stage the deformity may be corrected by head traction with a push on one leg and a pull on the other In some cases this may be supple mented by tenotomy. In resistant cases the contracted structures must be divided. The fascia lata may he cut the greater trochanter chiseled off the capsule of the hip joint cut and the opposite adductors tenotomized. To prevent recurrence a strand

of fasca lata may be anchored to the puble. In one case cited the hip was fused. In the eases of Types 4 and 5 correction and fusion of a scollotte spine was necessary.

WALTER P BLOWY M D

Le mans Extra Articular and Intra A ticul r
Sn pping Hip (ii hes c t t 1 t u
la re et t a tculai es) 1 h f c b lg s de
/ 9 9 9 3 x 39

Snapping h p is defined as a hip in which mo e ment suddenly stops when a certain angle is reached then continues only when an effort is made and is c in pleted rapidly and suddenly. When movement is interrupted a sudden sharp shock is felt in the h p and there 1 often a characterist c noise due possibly to an irregularity or a fault in the head of the femur or the dge of the acetabulum or the sudden shpp ng of s ft issues over the hony protub rance.

Snapping, hips are of not by see ever a riscular and are intra accolar The tra articular special section and are intra accolar The tra articular special section and the sudden ump of a force of the greater roods at a companied by a dull sound. In the intra articular type of snapping hip the disturbance is produced in the true in pount hy movements of the shigh or the

pelvis and is accompanied by a fainter sound than that noted in the e tra articular type

After reviewing the literature on the subject the author discusses the bony anatomy of the troen interior region of the femur the insertion of the glut us maximus and the relation of the tensor fis cue late and the heavy middle band of the fascon late and the vastus exterior. Which p ss around or ver the greater trochanter Other factors involved un snapping hip are the length of the neck of the femur a change in the angle of the neck such as is associated with core varia and wealness of the round heximent of the head of the femur.

The author discusses the production of snapping h p according to the group of muscles involved Except in the presence of a definite evosiosis on the greater trochanter or cosa vara the only objective finding in the hip at rest is slight relaxition of the

joint as a v bole and this is tare

Snapp ng hip is more common in males than in femal's and occurs most frequently in the third decade of life

The treatment of the extra articular form depends on the severity of the pain. In the absence of pain in the severity of the pain. In the absence of pain in treatment is necessary. When an exploratory moist in is made in cases with pain the insertion of the gluteu maximus and the vastus externus should be exposed. These may be sutured to ether or to the pe isosteum of the femu.

Only two operations have been performed on snapp ng hip of the intra articular type—one by Braun who changed the insertion of the cartil gin ous linin of the upper border of the actiabulum and the other by Nelaton who rescreted a strip of tendon from the distal end of the semitenduosus carried it around the gluteus maximus and inserted it into the greater trochanter of the femu thereby limiting the internal rotation of the thigh. Both operations were successful

The author report four cases of snapp ng h p

Kellogg Speed M D

### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Fèvr M and Bureau R Arthrodesis of th Spine in Scol si (Larthode du ra h d 1 s ol ) J d h 93 xx 7 1

Although spinal fus on has been used in the treat ment of intra table scolosis in the United States for over fifteen years it has only recently been

practiced in France
The purposes of the oferation are correction of
the deformity and stabilization of the spine in a
position of equilibrium Compensatory, hinge like
movements may occur above and below the ver
tehræ of erated upon but the grafted area is im
mobilized

The authors review the arguments for and against the operation. The four types of seolosis selected for operative treatment are the scolosis resulting from infantile paralysis marked scoliosis in addess cents painful scoliosis in adults and co genital scoliosis.

Arthrodes s i indicated especially in the cases of adults but usually is not indicated after the age of fifty years. In the cases of children the danger of causing a disturbance of growth does not constitute a contra indication after the twelfth year of age.

Pre-operative treatment with the use of a correcting corset continuous extension or a combination of traction and the use of a corset is advisable

The authors describe the techniques of H hbs Albee Halstead and Whitman

In the postoperative care the prone posit on and the wearing of a hivalve corset are necessary

The results of the operation in France are still difficult to determine. The authors review the results obtained by American surgeons and report eighteen cases in which they operated themselves. Kringog Sprin M.D.

Lavalle R My Fl st Eighty Nine Cases of Potts
D e se Operated upon by the Robertson La
valle Procedure (1) p ime os 80 c. 1 dem 1 d
Pott p ado prel poed minert Robets n
La all Re mbt L1 Am 1930 53

The author has found that in every case of tuber culous osteo arthritis there are walled off foci in the up physics of the bone as willed off foci in the up physics of the bone as will off the under the physics of the bone as capped is harmoglob in into crystals of harmosten and granulations of harmotodin and contain seells of harmosiderin. The insues of the walled off focus the blood which is definent in ovygen and it serum constitute a good culture medium for the tube of beach! The author's operation for tuberculous osteo arthritis consists in introducing into the walled off focus an autogenous graft of prorus bone off focus an autogenous graft of prorus bone

which being permeable to the liquids confined in the focus will permit the circulation of oxygenated blood within it. The koch bacilli are then weak ened by the sudden change in the culture medium and the osseous graft corrects the strangulation of the hyperæmic focus. The single surgical procedure achieves the two main objectives in the battle against the infection weakening of the Koch bacilli and strengthening of the field in which they develop

Following a description of his technique the author reports the results of the operation in eighty nine cases of Potts disease. When this report was written the time since the operations varied from a few months to four and a half years. Sixty two per cent of the patients were cured seven were recovering five were benefited one required re operation eight were not cured and six died during the first month after the operation.

WILLIAM W WHITELOCK PH D

Pouzet F End Results of Resection of the Calcaneus for Tuberculosis (Les r sultat élognés de la resection du calcan um dans la tuberculose)
Rev d orthop 1930 xxvii 627

In the case of a fifteen year old girl who was suffering from tuberculosis of the calcaneus with fistulous tracts but no other known foci of tuber culosis Ollier performed a complete subperiosteal resection of the calcaneus in November 1891 About two years were required for complete healing The patient was re examined by Pouzet in May 1930 thirty nine years after the resection. At that time the heel appeared somewhat shrunken and the L shaped scar was deeply retracted The skin was normal The width of the heel was 1 cm less than that of the normal heel the length of the foot was I 5 cm less than that of the normal foot and the height of the malleoli from the ground was 2 cm less than in the normal foot The long arch of the foot was shortened but was still present Palpation of the calcaneus revealed only a small amount of bone at the insertion of the tendon of Achilles but the roentgenogram showed considerable regeneration of the calcaneus The function of the foot was very good except when the patient went up stairs Pouzet believes that the patient's vouth at the time of the operation was an important factor in the sub sequent regeneration of the bone and the good func tional result KELLOGG SPEED M D

### FRACTURES AND DISLOCATIONS

Galland M Varlous Displacements of the In tervertebral Nucleus Pulposus Antepulsions Lateropulsions Retropulsions Posterior Luxa tion and Paraplegia (Les déplacements divers du nucleu pulposu intervertébral ante latéro et rétropulsions lu ation posté eure et paraplégae) Arch f anco belges de chr 1929 7930 xxxxx 479

The nucleus pulposus is a bean shaped mass of tissue under pressure situated in the sagittal plane at the juncture of the anterior two thirds and the

posterior third of the intervertebral disk. It is an essential organ in vertebral physiology. It is made up of connective tissue fibers cartilaginous and connective tissue cells myvomatous cells and fluid

Under pressure it tends to separate its adjacent vertebræ from each other and transmits the weight of one vertebra to the next. It forms a veritable wheel axle between adjacent vertebræ When lux ated it forms a peripheral wedge blocking and fixing the disk in a permanent cunciform arrange ment Embryologically the nucleus is a spinal cord rest In certain cases of lordosis kyphosis and lat eral deviations from various causes secondary devi ation of the nucleus may occur on the convex side of the curves Examples are seen in compensatory lordosis in certain deformities and scolioses Primary anomalies of site and development of the cord may cause the excentric appearance of one or more nuclei In such cases the luxation of the nucleus is primary and the vertebral deviation is secondary

The author describes secondary antepulsion re tropulsion and lateropulsion of the nucleus pulposus and shows these conditions in roentgenograms Primary displacements of the nucleus are much less frequent than secondary displacements. They are the consequence of an anomaly of location and development of the cord and result in scollosis and kyphosis. In some cases nuclear pressure may provoke other disturbances and complications such as paraplegia. The author has observed one case of lateropulsion and two cases of primary retropulsion localized kyphoses and paraplegias are due to a primary posterior localization of the cord which sometimes is associated with anomalies of development.

Jones R W Manipulative Reduction of Crush Fractures of the Spine Bru M J 1931 1 300

The author contends that severe forceful procedures under amesthesia are unnecessary for the reduction of compression fractures of vertebre. In the procedure he employs the patient is placed face down with his legs resting on one table his frunkswinging like a bridge between this table and a second table and his arms and head resting on the second table about 18 in higher than his pelvis. No anæsthetic is used. In some cases the patient's weight alone is sufficient to effect reduction with restoration of the shape of the crushed vertebra to its normal rectangular outline as seen in the lateral view.

After the reduction a plaster jacket is applied while the patient is still in the corrected position A few days later active muscle exercise is begun the patient lying in his cast and raising his legs and head to bring the spinal muscles into play. After ten days the patient gradually gets on his feet and after sixteen weeks movements of the spine itself are practised. Protection is necessary for four months. Within six months the patient should be able to resume his normal occupation.

This treatment has been carried out in seven cases with good results

The author urges that in first aid treatment of spinal injuries the patient be carried face down to keep the trunk hyperextended by its own weight William Arthur Clar MD

Gu dj P Traumatle Luxations of the Kne (L l t t mat qu du ge o) Rev d th p 93 xxx 9

In order to determine the exact rôle played by each I gament in the different phys ological move ments of the hace the author studied the abnormal movements permitted by methodical suppression of different ligaments the I gamentous I sessons caus ing the abnormal movements and evaggerated physiological movements

A lesson of the crucial ligaments is essent al for large and linear the three forward backward out and and inward but is not always sufficent alone to permit a lit. at on. Forward liu attons of the knee are the most common. In most cases hyperetten sion is a causative factor. The most frequent com pleat one are rupture of the skin rupture or com pression of the popilitial vessels and laceration or stretching of the external popilitial sociation erve.

The author collected 1 1 cases of complete and ncomplete backward luxat on of the knee In most of them hypere tension or rotation was a factor in the etiology Injury of the pophteal vessels is especially to be feared. In 10 cases there was a current luxation.

Of the posterolateral luxations posterior and out wa d luxations a e the most frequent Laceration of both crucial li aments is always accompanied by lacer tion of at least r lateral ligament

The prognos of lutations of the knee is generally good Immediate reduction should be done and followed first by mmobilization for from ten to fifteen d vs and then by massage and prudent active and pass we mobilization. Recurr ng luxation should be treated by c ntinuous extension and prolonged immobilization. The prognogs of traumatic luxa

tion of the knee depends to a great extent on the condition of the lateral and posterior tissues. When the joint is open it must be treated surgically Assculoncial complications and irreducible liu a tions require immediate surgery. If there is an accompanying meniscus lesson the meniscus should be removed. An articular foreign body should be removed if it is free or attached to the extremity of a crucial bigament. Vasomotor disturbances may be benefited moe by operation on the sympathetic nerves than by massage counteritriatian and hydrotherapy. P. cr.

Gat life J Th Ju ta etrope on 1 Rout In the Operatic Tre tment of Fracture of the M Heelus with a P t rio Margin 1 Fragment S f Gy c 5 Ob 1 1931 1 67

The operation described by the author was de veloped to effect reduct on in those difficult fractures of the tihia at the ankle in which there is displacement of a posterior marginal fragment assoc ated

with fracture of the fibula. An incision is made parallel with and just helind the fibula extending around the external malleolus. The perional tendinos are e-posed freed from their sheaths and retracted forward. The loner fragment of the fibula is then turned downward without division of the perione satragaloid ligaments the foot extended the tendino of 'chilles retracted backward and the postenior marginal fragment thus exposed.

The astragalus is brought into proper al gament vib the tubia by manipulation of the foot. The posterior marginal fragment is reduced and fixed in place by a screw passed forward and upward though it into the tibia. A second screw through the external malleolus holds it in position against the tibia. He necessary a Parbam hand is placed around the fibula at the site of its fracture If the internal malleolus to salos fractured it is fixed in position through a medial incis on at the same operation.

A perfect functional result is reported

CHESTER C GUY M D

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

### BLOOD VESSELS

Wright A D The Treatment of Indolent Ulcer of the Leg Lancel 1931 coxx 457

The author says that indolent ulcer of the leg occurs when the vascular equilibrium is disturbed Disturbances of vascular equilibrium may be caused by (1) occupations which require prolonged standing (2) pregnancy (3) venous obstruction (4) lymphatic obstruction (5) severe trauma (6) ankylosis of joints (7) semle vascular changes (8) varicose veins (9) Bazin a disease and (10) bodily habitus (obesity and extreme height).

The treatment of indolent ulcer recommended by

Wright includes

I Correction of the error in the venous bydraulics by supporting the limb with an elastic adhesive plaster applied directly to the skin ulcer and eczema from the toes to the knee

2 Absolute abstention from local treatment of the

3 The injection of varicose veins

4 Skin grafting of extensive ulcers to expedite healing

5 The wearing of a permanent support such as an Unna case or a Klebro resin bandage

TOHN H GARLOCK M D

Bumm The Circulatory Hormone in the Treat ment of Gangrene of the Extremities (Das Kreislaufhormon in der Behandlung der Fxtremi taetengangraen) Zentralbi f Chr. 1930 p. 2736

With the circulatory hormone it is possible in certain cases to attain localization sequestration and bealing of arteriosclerotic gangrene. This bor mone is an internal secretion of the pancreas which is demonstrable in the blood and all organs and tissues and is excreted in the urine. One unit contains the quantity of hormone found in 5 c cm of urine and an ampoule of the prepared solution contains two units. On intravenous injection it produces a marked lowering and an increase in the amplitude of the carotid blood pressure curve. Its power to lower the blood pressure curve. Its power to lower the blood pressure hes in dilatation of the smallest vessels and makes it valuable in the treatment of Raynaud's gangrene and arteriosclerotic gangrene.

The author reports a cure of beginning arterio sclerotic gangrene of the second toe in a seventy year old man. After three weeks of mellective treatment the entire middle portion of the foot showed a blush red discoloration and there was gangrene of the under surface of the second toe with a mucoid evudate. There was no improvement from heat or elevation. Injection of the carculatory hormone was followed by immediate cessation of

the pain subsidence of the discoloration demarca tion of the gangrenous portion and desiccation of the necrotic part. The hormone therapy was con tinued for fourteen days. After four weeks the black discolored region of the toe fell away and the wound was found to have epithelialized as if under a crust. The patient was discharged as cured and at the present time is Still symptom free

The circulatory hormone cannot help when gross changes in the vessels are already present but when spastic conditions play a part in the nutritional disturbances the hormone treatment is particularly hopeful. At any rate patients with arterioselerotic gangrene and similar conditions should be treated with the circulatory hormone before amputation is done. Encirc Hayre, (Z)

### BLOOD TRANSFUSION

Bordley J III Reactions Following Transfusion of Blood with Urinary Suppression and Uræmia Arch I t Med 1931 vl 11 288

Delayed or prolonged reaction following transfusion is not rare. The author reports seventeen

cases in detail

The reaction generally runs a peculiar and highly characteristic course Immediately after the trans fusion there is a sharp febrile reaction followed fre quently by hemoglobinuria and invariably by sup pression of urine. Then for several days there is symptomatic improvement but continued oligitia. After this interval the characteristic features of the delayed reaction develop rapidly. They usually begin with agitation or drowniess followed by definite evidences of uremia. Convulsions and coma may superview Frequently death results. Of the seventeen cases reported by the author eleven were fatal. Recovery is associated with duriess.

Autopsy shows that the kidneys are swollen The tubular epithelial cells contain droplets of a peculiar pigmented material and present advanced degenera tive changes The tubular lumina are filled with various cells blood pigment and debris Small

necroses are generally found in the liver

The author concludes that following the injection of incompatible blood the kidneys are damaged by an irritating or toxic substance which is set free in the blood at the time of the transfusion

GEORGE A COLLETT M D

Polayes S H and Lederer M Transmission of Syphilis by Blood Transfusion Am J Syphilis 1931 xv 72

In this article attention is called to the possibility of transmitting syphilis from donor to recipient or vice versa by blood transfusions. Ten cases reported in the I terature since 1917 are reviewed and the case of an infant which developed syphilis following a blood transfusion is described

The authors remind us that difficulties are en countered in determinin whether a not the blood of a given donor 1 infectious. They cite cases to prove that neither the absence of clinical signs nor a negative blood Was ermann reaction entirely excludes the presence of syphilis in the donor

It is urged that family donors be subjected to the same rigid physical and serolog cal examination as professional donors because in a large percentage of the cases rev ewed family donors were responsible for the transmission of syphil's to the recipients

ELIZABETH CRA. STOV

### LYMPH GLANDS AND LYMPHATIC VESSELS

St wart F W and Doan C A An Analysis of the Lymphadenopathy Question vith Special Ref rence to Hodgkin s D se se and Tuberculesis 518 193

Hodglan's disease has several heterogeneous but

interrelated pathological manifestations. It may be an ill defined chronic lymphadenitis vith sight to moderate reticulum cell overgrowth or probleration f the s nus endothelium and a slight cosmophilic in

filtration or it may show a more or less diffuse over growth of small lymphocytes as ociated with a low grade pseudoleukæm c blood pr ture. Hovever m the fully developed typical types there; the charac terist c Sternberg cell picture and on occasion a tendency toward various sarcomatoid manifestations

Wh n studied by supravital staining nodes from eases seen early in the d sease show many epithelioid eells imilar to those found in tuberculosis. In the later stages of the disease there are perhaps fewer epithel o d cells and a more general connective tissue reaction Differences between these pictures and the classical caseous tuberculosis are striking only when the extremes are considered. There are many examples which reveal interrelationsh ps and there are ca es in which it is quite impossible to determine where one type ends and the other beg ns Hodgkin s disease diffe a from typical tuberculos a hardly more than the various manife tations of clearly recount ed tuberculosis differ from one another-no more than pleurisy with effusion differs from phlyctenule or hyperplastic tuberculosis of the cocum from acute pneumonic phthe s or lupus erythematosus

The fact that Hodgkin's disease pursues an inevitably fatal course does not rule out tuberculos s as a cause In the first place it is never treated as tuber culosis in the second the involvement is usually extensive when the patient is first seen and in the third at as impossible to estimate the number of transient lymphadenopathies never subjected to m croscopic diagnosis which if studied microscop cally might show features leading to the diagnosis of Hodekin's disease

With the histopathological approach to the finer cellular differentiation and structure in disease proc esses a bich is now possible with the use of supravital staining it may be possible eventually to understand more fully the mean ng of these reactions of diverse causation in terms of physiological equil brium and resistance. The fact that the body has at its d spocal only a limited number of eells with which to combat invasion and insult explains the confusion which at tends attempts at differentiation in such a closely alhed group of diseases as those affecting the lym phatic system

The control of each definite et ological entity in diseas depends upon an understanding of both the pathological agent or factor and the mechan sm of adjustment or resistance SAMUEL I ARN M D

## SURGICAL TECHNIQUE

### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Hume J B Surgical Trauma and Convalescence Lancet 1931 ccvx 6

Delay in convalescence from a surgical operation whether primary or secondary is due chiefly to the injury inflicted during the operation and psychological or nervous factors

In the preliminants to operation many un pleasant shocks may be eliminated. Castor oil over stimulates and congests the intestines and causes dehydration. There is less postoperative distention when it is not given. Pre operative starvation is unnecessary, the patient needs fluids and sugars. Sleep is essential the night before operation and is disturbed by purging. Preparation of the abdominal wall can be done the morning of the operation as well as the night before.

Abdominal insults can be prevented by adequate incisions which will eliminate the necessity for vigorous retraction and pulling on the skin and peritoneum. Imperfect bæmestasis and mass ligation cause devitalization and absorption with the consequent entrance of toxic substances into the circulation. Rough handling of viscera and pinching of and traction on the mesentery are conducive.

to surgical shock

After treatment is important. A warm bed mor phine for resilessness and frequent changes of position belp to decrease discomfort and lessen the danger of emholus and shock. A firmly fitting but not too tight hinder will also make the patient more comfortable and hed exercises will enable bim to walk sooner than absolute immobility for two weeks

The anæsthetic is important. Any type of anæs thesia which aholishes fear will bring the patient to the operating table a better risk. Avertin if carefully and skillfully administered in the patients room will overcome fear of the operation Skillful nursing and attention will save many hypodermics of morphine in the postoperative management of surgical patients Howard A McKnour M D

# De Takats G Push Fluids The Surgeon s Post operative Order Am J Surg 1931 11 39

Starting with the treatment of dehydration fever of infants and the recognition of dehydrated states before and after operations and in infections a universal use and frequent abuse of excessive fluid intake have become a routine practice in most bos pitals. Often the mechanics of water retention and water excretion are fully ignored and pathological conditions are aggravated.

As long as they are in a stage of compensation patients with myocardial damage show the same

diuresis as normal persons after fluid intake. Delay in the excretion of water is one of the early signs of decompensation Therefore in the case of a surgical patient whose cardiac insufficiency is harely com pensated it is undoubtedly possible to produce de compensation with cedema and dyspneea by forcing fluids The excretion of fluids is retarded also in the presence of kidney damage yet the practice of pushing fluids to an extreme in the cases of elderly men with prostatic disease who often have an ascending pyelonephritis in addition to hyperten sion nephrosclerosis and cardiac damage is common When patients with kidney insufficiency are given sodium chloride sodium hicarhonate or other salts in doses of from 15 to ogm a day their weight increases because of water retention tomary 4000 c cm of normal salt solution a day represents 40 gm of sodium chloride This is at least twice the normal daily salt intake. In the cases of greatly dehydrated patients with low blood chlorides and obstruction in the upper part of the intestinal tract the administration of normal salt solution is rational but in the cases of others the administration of salt solution easily leads to water retention particularly if a degenerative Lidney lesion prevents a normal salt balance

The administration of large quantities of sodium chloride solution is contra indicated also by a dis turbance of the sodium calcum halance of the blood resulting in excess of sodium ions. This excess may lead to colloid changes in the heart muscle acceleration of metaholism glycosuria and

over

Following a major surgical operation which prevents the oral intake of fluids for a few days a satis factory water balance can be maintained with 3 cooce on of fluids. Most of the fluids can be given under the skin but in the presence of serious complications the intravenous drip method is useful A senseless routine pushing of fluids may lead to the water intoxication noted by Rowntree in experimental animals. Saudel J Foolison UD

Nicolaysen J and Nicolaysen K Prophylactic Measures Against Postoperative Thrombosls and Embolism (Prophylaktusche Verhaltungsvor schritten ge en die postoperature Thrombose und Embolie) Norsk Mag J Lager densk 1930 vci 913

Postoperative thromhosis is rare in patients under twenty years of age. The thromh seem to form within the first postoperative days but the symp toms often appear later. Embolism is often not preceded by symptoms of thromhosis. Most fatal ittes from pulmonary embolism occur hetween the second and eleventh days after operation.

The authors revew the theories that have been advanced regarding thrombosis and discuss post operative blood changes and their causes Of im portance among the latter in addition to coagulating sub tances are hunger and therst Crile Rost Ruf and Schoenbauer have called attention to these factors Knud Aicolaysen's investigations show that patients suffer an enormous loss of veight during operation. When the body weight is about 6 kgm this may amount to as much as 500 gm per hour The results of recent studies on postoperative acidosi are discussed to justify correction of the fluid loss during and after operation particularly by means of transfusions infusions and drip enemata In all majo fluid losses glucose solution should be dmin stered instead of saline o Ringer's solution Camomile tea is al o of value

According to the observations of De Quervain and Plummer the studies of Rowntree Shianoya and Joh son and the operative results of Walters Fruend and Boshamer the administrat on of thyroxin and of thyroid tablets is a valuable prophy lactic measure against postoperative thrombos s On the other hand Poper denies that these suh stances have a specific action and the authors study a ndicate that they do not play a striking rôle in the prevention of thrombosis The authors regard the adm nistration of large amounts of fluid as of most mportance They have been unable to c nfi m Walter s assumpt on that the basal metaho 1 sm fall after operation but they recommend thy old preparations to pre ent lowering of the

blo d pressure

The authors results at the Reichshospital are summarized in tables Of 556 cases which were pe ted upon du ing 19 9 when large quantities of fl d glueose and tyropan were given throm bosi and embolism occurred in 4 (0 73 per cent) and death from pulmonary embolism in none whereas of 1 75 cases in which operation was per form d n the period from 19 6 to August 31 1928 thromhos s and embol sm oecurred in 27 (2 12 per d death from pulmonary embolism in 3 The e complic tions did not occur in patients under t ent vea s of age Of 952 cases in which opera tion a pe fo med on a patient over twenty years of age in the period from 1926 to 1928 thrombosis nd embolism occurred in 2 84 per cent and death 3 per cent whereas of 418 cases in which ope tion was performed on a patient over twenty yeas of age in rozo thrombosis and embolism occurred in 0.96 per cent Of 639 operations per fo med between May 5 1928 and December 31 1929 in the H ngesund Hospital where only very cop ous fluid administration is used thrombosis and embolism cour ed in 0.78 per cent and death from pulmonary embolism in none whereas of 426 of thes cases n which the patient was over twenty years of age thrombosis and embolism occurred in 1 17 per cent

In the cases of natients whose blood pressure is lower th n the average f r their age group ephi

To improve the circulation in the tonin s give legs and pelvis the foot of the bed is elevated

In the cases of patients subjected to operations which are apt to be followed by embolism (appen dectorates operations on the stomach bowel biliary tract hernix uterus and uterine adnexa cystos tom es prostatectomies resections of the saphenous vein) and in the cases of patients with fracture the authors have adopted a systematic procedure with the following features

r Fluid administration The patient is encou aged to drink as much as possible on the day he fore operation. Among the fluids given is glucose solution He eceives in addition a drip enema of I liter of a o o per cent salt solution vith 50 gm of glucose The attempt is made to increase the flu d intake to 3 I ters on the day before the operation Immediately after the op ration the patient re ceives an enema of 1 liter of water with 2 table spoonfuls of cognae This is given in a period of from fifteen to thirty minutes. It is followed in the course of the day by a dr p enema of usually 2 l ters of a o o per cent salt solution with so gm of glucose On the next two days drip enemata of at least 1 I ter are given From the morning of the first day all patients are given fluid by mouth Patients with acute abdom nal cond tions receive I liter of salt solution with so gm of glucose subeutaneously on the operating table

2 Tyropan and thyroun When possible for several days and always for one day before the operation the patient receives tyropan 3 times daily On the morning of the day of operation he receives thyroxin subcutaneously In the course of the same day thyroun is given twice hy mouth or subcutaneously On the first and second day after the operation the administration of thyroxin 3 times daily is continued. From the third to the tenth day inclusive tyropan is given 3 times daily Patients with acute abdom nal cond tions receive tyropan on

the operative table 3 Ephitonia The blood pressure is taken before and immediately after the operation again in the afternoon of the operative day and on the first and fourth days Pat ents having subnormal levels on the day of operation receive ephitonin 3 times a day for three days Since June 22 all patients over twenty years of age have received ephitonin

4 Elevation of the bed When the patient is over twenty years of age and there is danger of em bolism from operation or fracture of the lower ex tremities the foot of the bed is elevated 30 cm on KORITZINSKY (Z)

blocks for eight days

Breu r F Unil teral Postoper ti Injury to the Di phragm (Ub et gep stoper ti Zwerch f llscha d gung) A ch f kl n Ch 93 cl 443

In 1914 Pasteur called attention to a peculiar form of postoperative pulmonary complication which he called massive collapse By this term he meant collapse of the basal portion of the lung caused by unilateral paralysis and elevation of the

Little has appeared in the German diaphragm literature on this condition although every surgeon must have observed it relatively frequently after operations on the upper part of the abdomen The author describes it on the basis of nine cases which he reports

Between the third and seventeenth day after a laparotomy the following characteristic unilateral symptoms appear without previous disease of the lungs (1) elevation of the diaphragm (shown by eight roentgenograms) (2) limitation of motion of the diaphragm (3) pain in the region of the inser tions of the diaphragm and (4) increased muscular

tension in neighboring regions

For the diagnosis of this condition the occurrence of which has been confirmed by Lund among others and reported frequently in the English and American literature examination with the roentgen ray is nec This examination must be made with the patient in the recumbent position since in the begin ning at any rate be is very sick. In the roentgen study of diaphragmatic function the work of Mueller and Hitzenberger has been of great aid. The absolute low or high position of the diaphragm is of less importance than high position of one side as compared with the other The typical diaphragmatic pain consists of spontaneous pain and pain on pres sure in the region of the insertions of the diaphragm The muscular symptoms referable to the diaphragm consist of partial fivation of the diseased half of the chest and tension of the wall of the upper part of the abdomen on the diseased side

The English assume that the factors concerned in the pathogenesis are purely reflex but the author believes that besides reflex factors the disease con dition of the diaphragm which Wicker recently called diaphragmatitis is a cause of the syndrome During operations-resection of the stomach for example-a certain number of bacteria always gain access to the abdominal cavity and reach the serous coat of the diaphragm the interior of the diaphragm and thence under some circumstances the pleura That the lymph stream plays a still greater role in conveying the infection is well known An infection usually meets with less resistance in making its way from the abdominal to the thoracic cavity than when it travels from the thoracic to the abdominal cavity The pathologico anatomical substratum of dia phragmatitis the symptoms of which are just the same as those of the diaphragmatic condition under discussion is a leucocytic infiltration

The reflex connections of and to the diaphragm are numerous This fact explains the great variety of the phenomena in diaphragmatitis says that in this respect the diaphragm is joiced up with all of the organs which send centripetal im pulses to the segments conveying motor energy to it The injury to the diaphragm is important in still another respect The elevation of the diaphragm determined by it must be looked upon as one of the accessory causes of postoperative pulmonary com plications as it interferes with respiration in the

portions of the lung adjacent to the diaphragm Engorgement or oedema therefore occurs readily and infectious material arriving by any route easily leads to pneumonia or bronchitis A STAPH (Z)

Ballin VI and Morse P F Progressive Postoper ative Gangrene of the Skin 1m J Surg 1931 x1 81

The authors discuss ten cases of progressive post operative gangrene of the skin which have been reported in the literature and four of their own All of the patients recovered. The duration of healing ranged from two to twenty two months

The condition must he di tingui bed from com mon wound infection ervsipelas and gas hacillus infection The gangrene does not extend deeper than the skin As a rule a mixed infection 1 present

The treatment consists in cutting around the un dermined edges preferably with an electrocautery knife to excise the whole serpiginous edge of the process about 1 or 2 cm from the undermined area It is not necessary to cauterize the middle of the defect where the process has stopped but the progressive gangrene of the skin must be excised. The pain usually stops immediately after the operation The wound may be covered with vaseline or any moist dressing and a skin graft applied to the defect after a week. Skin grafting shortens the time of healing CARL R STEINE M D

### ANÆSTHESIA

Johnston F D and Cabot H Explosions Oe curring During the Use of Ethylene A h Sug 1931 XXII 9

This article is a rather detailed discussion of the theoretical and practical conditions associated with the explosions which have occurred with ethylene used in combination with overgen for the induction of anæsthesia. The theory of electro tatics the electron theory and the application of these theories to anæsthetic machines are set forth at some length The authors then discuss the origin of static charges in and about the machines now used for the ad ministration of ethylene This work was carefully checked by a physicist Professor \ H Williams of the University of Michigan The methods of preventing the development of

such static charges are then explained and upon the basis of this study the following recommenda tions are made

Enforcement of strict regulations prohibiting the use of electrical equipment or any obvious source of beat in the vicinity of the anæsthetic machine

Means to prevent explosions due to static sparks

originating outside of the machine A A thin sheet of metal flooring forming a con

tinuous pathway from the anæsthetic room to the operating room and covering the floor of the operating room

B Chains electrically connected to and sus pended from anxisthetic machines and other movable equipment so as to drag on the metal floor

C Projection of the spiral conductor embedded in the breathing tubes into the lumen of the tubes and its electrical joining to metal pieces at the extremites of the hose. A coarse network of copper wire covering the breathing tubes and soldered to the metal ends metal plates comnected electrically to the metal floor placed on the outside of all doors leading into the operating rooms in such a way, that the doors cannot be opened without touching these plates.

D Connect on of the pat ent and the metal

frame of the operating table by a chain ending n a suitable piece of metal in contact with the

patient's skin
3 Measures to prevent explosions due to static
spark with n machines

A The trial of a small quantity of radio active substance within the rubber rebreathing bag B If the foregoin method does not ab olutely prevent the accumulation of charges on the hag replacement of the bag with a manometr c de

vice described

C. Weekly inspection of the check valve admitting gases into the mixing chamber to be sure that the valve and valve seat are clean and

dry
4. Occasional tests with a gold leaf electroscope
d r ng the cold months of the year to be sure that
the appa atus is not developing static charges

Olm t d J M D and Girag s intz G Some Effects of Amytal Anæsthe la J L b & Cl

Wd o3 1334
The authors have found that amytal profoundly the t the respiratory center and prevents gastine et n. In elin cal case the blood prevents gastine of the beart rate was increased. In casts asphysia fill to cause a typical rise in the blood pressure D fed on a deet rich in carbohydrates show a liter either the blood sugar after amytal but no

r atter a lean meat diet When injected simultaneously with morphine anvital pre ents hyperglycam a and when injected after morphine it checks glycogenolysis. It prevents the rise in the bil of sugar which would normally follow two minutes of a physia but does not prevent in in that stares of sanhwr a

GEORGE R MCAULDY MD

Freidinender B The Therap utic Indications of the Sod um Salt of the Secondary Butyl B Bromallyl B rbituric Acid (Pernocton) An s & A 1 931 x 25

Permocton induces a state closely resembling normal sleep nithout causing the psychot traumata of inhalation annesthesia. It should be given slowly by intravenous injection and the does should never exceed x ccm per 12 g kgm of body we ght Frequently the patient falls asleep during the injection. After from fifteen to twenty minutes other may he given. The postoperative sleep may letter from two to five hours. Assues and vomiting are from two to five hours. Assues and vomiting are

The author has used pernocton successfully in 700 cases George R McAulif M D

### SURGICAL INSTRUMENTS AND APPARATUS

Melen y F L and Chatfield M. The Sterility of Cataut in R. lation to Hospital Inf. cti as with an Effectie Te t for the Sterility f Cataut S f. G 5 & Obst. 95 in 430

It has been demonstrated by the development of postoperative infections traced to catgut and by examination of specimens of catgut obtained in the open market that surgeons throughout the United States are using contaminated catgut from time to time

In bacteriological studie of catgut the authors have found all of the common gas gangrene o gan isms and others have demonstrated the bacillus of tetanus The authors state that the media used in testing the steril ty of catgut should be a clear fluid containing adequate nutrient substances such as meat infusion broth n th peptone and reducing suh stances such as glucose and gelatin. Its hydrogen ion concentration should he the optimum for the pathogenic spore form ng anaerobes which is from pll 7 to 7 4 It should be sealed with an impervious seal such as vaseline or valspar which should be overlad within a fer minutes after transfer of the catgut. Before moculation into the media the cat gut should be washed as free as possible from the su pending fluids and neut alized with chemicals The beavest strands of catgut from each batch should be selected for the test. After moculation the catgut should be classed as sterile only when there is no evidence of growth after incubation for at least fifteen days SAMUEL KAHN M D

## PHYSICOCHEMICAL METHODS IN SURGERY

### ROENTGENOLOGY

Thomson G P Some Recent Experiments on Cathode Rays Brit J Radiol 1931 iv 52

The study of cathode rays the necessary ante cedents of X rays advanced rapidly after recognition of the electron and constitutes one of the most convenient ways of studying the properties of the electron. Broglie who founded the theory of wave mechanics has strongly influenced the views on the

nature of electrons

The author has experimentally proved the Broghe wave theory by showing the identical similarity of interferences produced by \(^1\) rays and those produced by \(^1\) rays and extremely thin film of metal was used in the authors experiment. This produced the same pattern of concentric circles on the sensitive film as \(^1\) rays an extremely the indicate of the cathoder arys was assured by deflecting the heam by means of a magnetic field placed hetween the metal film and the sensitive screen the magnetic field not having any influence on \(^1\) rays.

In conclusion the author says that the cathode rays as well as \ rays can he used in the investiga tion of crystalline structures through the wave pat terms produced by the reflection of the cathode rays from the surface under investigation onto a sensitive film CLAREMEN V BATEMAN M D

### Desjardins A U Radiotherapy for Inflammatory Conditions J Am M Ass 1931 xxv1 401

The value of radiotherapy in the treatment of many acute subacute and chronic inflammatory processes is not so well known as it should be This is apparently because the sound experimental hasis and the mass of clinical and other evidence on which it rests have not been considered and because many questionable or wholly unfounded deas have been advanced as explanations. As in so many other phases of radiotherapy, the first knowledge of the possible value of irradiation in inflammatory con ditions resulted from the observation of unexpected benefit following exposure for diagnostic purposes of parts of the body which were the site of inflammatory lesions

The influence of irradiation on lesions such as furuncle carbuncle and other pyogenic infections especially during the stage of maximal leucocytic influence in the before the stage of frank suppuration has been demonstrated by numerous observers. Even now however this method of treatment is not used as widely as it implif the probably because its value is not generally realized. A review of all of the published reports shows that in the majority of cases it results in great and prompt benefit. Pain is relieved in about twenty four hours although in a small percentage of cases such relief may be preceded by a temporary increase in the pain. The best results are obtained when the lessons are treated early

Few physicians know that treatment by roentgen rays may be invaluable in pneumona. Irradiation bas been used successfully also in the treatment of trachoma. Its action is greatest in the early stages of the granular form of the disease. In the later stages when the lymphoid granulations have been replaced by connective tissue irradiation has little if any effect.

In the last few years it has been found that erysipelas often responds well to radiotherapy particularly if the patient is an adult and the treat ment is given early. For some reason children do not

receive so much henefit

Acute parotitis is an uncommon hut a sinister complication of certain surgical operations Its incidence is low in general surgery hut higher in operations on the large intestine. In several cases in which a moderate dose of radium was applied soon after the onset of the condition the inflammatory process subsided within from twenty four to forty eight hours suppuration was prevented and the mortality was correspondingly reduced Suppura tion was only a tentb as common after irradiation hy radium as after ordinary methods of treatment In only two of twenty cases was surgical drainage necessary A few patients were treated with roent gen rays with equally encouraging results Radium irradiation is preferable in many cases of post operative parotitis because it can be given without disturbing the patient. The salient effects of irradi ation are relief of pain and rapidity of regression of the condition

On the assumption that the infilirative stage of chrome parenchymatous nephritis is characterized by round cell infiliration around the glomeruli and larger intertubular vessels and that such infilirating round cells should be succeptible to irradiation several investigators treated patients with chrome nephritis by irradiation. The results in most cases were good. If eventually it should be proved that relief bas b en obtained irradiation may offer a valuable means of treating such cases because in cer tain forms of nephritis leucocytic infiliration is a marked feature of the pathological picture.

Exposure to small or moderate doses of roentgen rays has been found to yield equally good results in

many other inflammatory lesions

The dose of rays is small or moderate A single exposure of a few minutes is sufficient if the lesion

568

can be 1 rad ated through a single field. In some cases it may be necessary to repeat the treatment once or twice at differing intervals

### RADIUM

Souttar H S Radium n the Service of Surgery B t M J 93 1

This sa general rev ew of the p esent day position of the staff of the London Hosp tal with regard to the value of radium. The author believes that the introduction of needles and of seeds is a great advance and that the local cure of almost every fr mo of cancer is only a matter of time. Cancers which ha e spread widely however present a difficult problem.

Cancer of the breast is treated I vit e introduct on of cross is their cloumns of seeds about the pinn 17 tumor and in the avilla. In carci oma of the tongue the growing edge of the tumor is infiltrated with a uniform barrier of seeds with a st ength of about 12 flow which are screened with platinum. The local cure of the growth is often accomp med by failure to check recurrences in the cer rail glands. The author regards the rectum as peculiarly adapted to the use of seeds. Home er he believes that even when a successful result has been obtated from the irraduation of the rectum as advasable three months.

later since it is impossible to be certain that all of the growth has been destroyed

No five year results are reported in this study

C D HAAGENS N M D

### MISCELLANEOUS

Cumb rb tch E P The Use of Diathermy in Med cine and Surgery La c t 93 cc x 28

The purposes of medic 1 diathermy are to relieve pain and spasm r ise the tempe ature lower the blood pressure and aid the resolution of inflamma tion Surgical diatherm; is employed to coagulate

abno mal tissue en matri.

The author revier's the use of d'athermy in the various branches of medicine and surgery. He d's cusses its application in hyperpies's intermitte t'elaudication pneumonia mucous colit s'ashma and arthritis. He does not make a definite report of results as his purpose it manhy to open a discussion.

of the subjects with a hich he deals

He states that medical diathermy has been par troularly successful in spaceology as it is as utable method of applying heat directly to the affected strictures. For salping its and puerperal feeer he recommends the method devised by Robinson of St Bartbolomew a Hospital I ondon. He does not describe the stechanque.

## MISCELLANEOUS

### CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Gheatle Sir G L Natural Law in Pathological Growth Ann Surg 1931 xcm 3

The normal uses and functions of all varieties of cells have a marked influence upon morphological appearances of tissues when they become pathological. The author compares fibrous connective tissue cells and three varieties of epithelial cells

In the normal function of fibrous connective tissue cells and in pathological conditions in which these cells are involved desquamation takes no part whereas in the normal function of epidermal cells belonging to the horny layer desquamation and renewal of the cells take place constantly and in pathological lesions of the skin the effects of the desquamation are seen in dermoid cysts with walls containing no hair follicles or sebaceous glands Under conditions of normal function the epitbelial cells of the breast are shed for the elaboration of the secretion of milk Normal shedding of epitbelial cells for the elaboration of secretion takes place also in the prostate and sebaceous glands. As cystic states of the breast and of the sebaceous and prostate glands depend upon the desquamation of epitbelium cysts are very common in these glands In the intestines kidney adrenal glands and liver the function of the epithelial cells does not include desquamation for the elaboration of secretions or excretions Therefore cysts due to epithelial hyper plasia and neoplasia are uncommon in these viscera

All of the organs and tissues of the body are fected by the same pathological processes. The affected by the same pathological processes chief differences in their pathological states are due to differences in the function and structure of the parts A pathological condition in a gland containing ducts and actni differs from a similar condition in a gland containing only acini or alveoli by the addi tional changes that occur in the ducts in the former type of gland The breast and thyroid gland undergo preci ely similar changes of adenomatous tumors cystic formations and malignant diseases the chief differences in their pathological conditions being due to the presence of ducts in the breast The patholog ical changes in the gastro intestinal mucous mem brane differ from those of the breast thyroid and prostate gland only by reason of differences in structure and function of these organs epithelial elements in all of them undergo similar desquamative hyperplasia and benign and malignans neoplasia. An adenoma of the int stine resemblet an adenoma that has formed in a duct of the breast The fact that the ducts of the breast are of such small caliber that they are dilated by tumors growing within them has given rise to the erroneous term

intracystic adenoma. Adenoma of the colon occurs in a tube so large that the dilutation is not sufficient to lead the observer to regard the neo

plasm as an intracystic tumor

The differences between papillomata growing from the pelus of the kidne; the urinary hladder and the epidermis and papillomata ansing from the ducts of the breast and the colon are also due chiefly to differences in structure and function. The functions of the epithelium of the pelvis of the kidney urinary bladder and epidermis are chiefly those of providing a covering or lining surface. The functions of breast epithelium are a great deal more complicated since at puberty and lactation new glandular elements must be formed.

Fibro adenomata and adenomata usually remain being n throughout their course. When they become malignant it is their conne tive tissue elements which become anaplastic and appear sarcomatous morphologically or develop metastatic growths Papillomata on the other hand commonly terminate in carcinomatous degeneration. These tumors are similar in their attempts to reproduce normal structures and functions and in their multiple origin. It is not so common to discover either sarcoma or

source of these diseases is usually limited to one part of a tissue or gland

The signs of physiological control in benign and malignant tumors do not support the theory that tumors cannot be produced by the introduction of

carcinoma arising from multicentric sources. The

an external agent

The author's observations indicate the evistence of a systemic ontrol over the formation and genesis of beingin and malignant tumors. There is considerable experimental evidence to show that epithelial and connective tissue by perplasia may be induced by overactivity of the corpus luteum and that this action of the corpus luteum may be prolonged by bormones in the anterior lobe of the prituitary gland. At the present time, the relation of these bormones to diseases of the breast can be only inferred. MANULE LUCTURYSTEIN M.D.

# Hallam R The Enigma of the Chilblain Br t M J 93 215

Chibiam is essentially a disease of the first decades of hife Of a series of 100 consecutive cases studied by the author it occurred before the twentieth year in 83. In the aged it is rare even when serious organic disease is present

Histologically the early stages are characterized by a rapid degeneration of the small vessels with perivascular infiltration Besides the transudation of serum there is sudden and severe damage of the vessels of the papillary layer of the cutis

Io a susceptible person chilblain begins about eighteen hours after exposure to cold of the requisite If the temperature rema ns low the chil blain undergoes little change but if the temperature is rai ed it ceases with surp is ng rapidity. Of 14 patients with arte ioscleros s among 1 275 patients attending an out patient clinic and of a sufferiog from myxcedema none gave a history of ch Iblain

hereas of 86 w th some form of heart d sease 15 had had chilbla s a d of 4 under treatment for exophthalm c gotter 3 gave a histo 3 of that condi-

In Raynaud's disease which Lewis has sh n to be a spasmodic arrest of the circulation due to con traction of the digital a teries chilblaio is not com

Though the et ology of the chilblain is still ob scu e it appears that there must b an unknown and independent fact r producing a change n the all of the smaller cut cular vessels in addition to a factor ctard ng the blood stream A change in the vessel s necessary before expo ure to cold sable to damag the t saues since in the no mal skin the cap llaries are found to be intact even after the skin has been

suffic ently fro en to fo m a wheal The author's findin s with regard t the coagu lab lity of the blood of persons with chilblains a d acrocyanotics d not support the theory th t the coagulati n time is delayed. It is d ubtful al o hether there s ny reason for the bel of that cal

c um deficiency a f ctor The stamin content and the mineral const tuent of foods do not seem to bear any relat on to the incidence of chilble ANTHONY I'S VA M D

F E and Bigg II J E perimental and Clinical Studies on the T atm nt f C ncer by Dichlo thyl ulphide (Mustard Ga) in

Musta d gas solution applied to the skin produces i tense hype æmia ædem ves cles leucocytic in fit at on and finally ulceration b chisslow to heal Foll wag its pplication t tar c ce s n mice the tum s could be eradicated with recu rence. Its ntrat mo al inject on yielded simila e ults but caused more i te se local reaction A dosage of f om / t minim of o per cent solution of mus ta d gas 1 bsolute alc hol was used Chrical cases of kin cance t eated with this solution to which th re has been f eedom from recu rence for se eral months s ce the t e tment are r po ted

V RNE G BUR N At D Und fle ntiated R und Cell

S g 93 For many ye s it has been taught that the less differentiated the cell the more mal gnaot the tumor the earlier the neoplasm gi es rise to metastases and the more unfa orable the pro nosis This has been regarded as true particula ly of carcinomata Broders has class fied carcinomata into four types according to thei m rphology which corresponds

1

Phemist

Sarcomat

roughly to their degree of malgnancy Sarcoma presents e ceptions to the rule more frequently than ca cinoma The be t example is perhaps the un d fie ent ted round cell sarcoma found most often in the bones and the connective tissues of the soft parts of the extremitie Io fve cases of such sa comata occurring in adults v h ch were treated by the author during the period from 10 0 to 1825 a cure lasting for from four and two thirds to ten and three fou the years has been obtained. In two the sarcoma begao in bone and in three in the con nect ve tissues about bone All of the tumors vere treated before they had produced cacheria. In no instance was there e dence of metastasis and in nooe have metastases developed since. Metastase may be absent e en when the d sease is advanced The prognos s n this type of case has been greatly improved by the use of irrad at on therapy as the neoplasms are among the most rad osensitive of tumors

In one of the author's cases the treatment con sisted of amputation in one case of rradiation by means of radium and the \ rays and n to cases of \ ray irradiation soon followed by cycisi n and rad um implantation and subsequent \ ray irra d at on

In one cas the tumor disappeared under \ ray irr dation. The bo e in which it had developed vas then excised and further vay irrad at on was given Biops; performed in four cases the occur reoce of a pathological fracture in one case and a previous incomplete operation in one case did not lead to metastas s In one case seve al years we e required for sequestration of the b ne killed by rad um treatment as the adjacent t ssues which produced the absorption sustained a r d um burn

JOSEPH & N RAT M D

### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

C dh m F T S me Immunologic 1 Probl ms in Sept zemia C d W 1 J 93

The author discusses the infective agent in septicam a the patent's resistance complement in health complement to disease complement in treat ment antibody and complement and treatment

ith normal and immune serum

He has treated fifty six cases of sept cæmia with serum Although in the majority the condition was in a advanced stage forty five of the patients re covered Blood cultures showed a homolytic strep tococcus in thirty eight cases streptococcus viridans in six a staphylococcus in five an undentified diplococcus in one the colon bacillus in one a streptococcus and staphylococcus in three and bacillus pyocyaneus and a staphylococcus in one Ev ry case vith a double infect on proved fatal Th treatment was as follows

From a vein of the arm of a compatible do or from 6 to 7 ccm of blood were withdrawn int a large sterile vacuum tube. The blood v as allowed to clot at room temperature and then placed in the ice chest. From five to eighteen hours later the serum was drawn into a sterile glass syringe and mjected into the patient. The transitusions were given every second day. The average number of such treatments was four. On alternate days from 2 to 5 c cm of immune serum from a rabbit prepared as described were inoculated subcutaneously. It is pointed out however that the extended thera peutic u e of rabbit serum has limitations as the animals are small comparatively short lived and susceptibile to certain infections.

This method of treatment does not contra indicate surgical intervention for the elimination of foci of infection when such a procedure is feasible

Attention is called to the fact that the nature of septicemia varies widely and that a patient with an apparently overwhelming hacterial invasion may recover without special therapeutic aid. Hence the evaluation of any method of treatment on the basis of the clinical results is difficult. As stated his Churchman in a discussion of the intravenous uses of dyes it is necessary to bear in mind the possibility that attempts at rapid sterilization in viro may defeat their own purpose since the too rapid ah orp tion of freed endotoxins may he followed by seriou castles. STEENE WID

### EXPERIMENTAL SURGERY

Ellis J D The Rate of Healing of Electrosurgical Wounds as Expressed by Tensile Strength J Im U 4s 1931 vol. 16

Only 60 per cent of electrically produced skin wounds showed primary union as compared with 91,3 per cent of control scalpel wounds. When primary union occurred in the electrical wounds it was somewhat weaker than in the calpel wound and when there was marked dehydration it did not attain a strength equal to that of the scalpel wounds in twenty one days.

Stomach and mu.cle inci ions electrically produced showed the ame incidence of primary union as scalpel wounds. The electrically produced stom ach wound were notably weaker at about the mind point of healing but the electrically produced muscle wounds were almo t equal in strength to the scalpel wounds through the entire period of healing.

While these ob ervations do not argue against the use of the electrosurgical knife for surgical in cisions under certain circum tances they show that the electrosurgical knife cannot be considered a practical substitute for the scalpel for routine use

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### SURGERY OF THE HEAD AND NECK

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### SUBJECT INDEX

ABDOMEN Pleuropulmonary complications of dis-eases of 14 painful postoperative scars of 20 subphrenic abscess 141 440 transverse incision of wall of for operations in hypochondrium 2.7 orthopedics of 239 metastasis of thyroid tis ue to organs of 240 intra abdominal radium survery 281 acute surgical in children 352 subcutaneous injuries of 533 Abscess Subphreme 141 440 permephritic 255 See also

names of organs Accommodation 418

Acridin salts Treatment of gonorrhora with 50

Acriflavine Effect of given intravenously on experimental uterine infection in do" 354

Addison's disease 547 use of cortin in 364

Adbesions Prevention of pentoneal by amniotic fluid 20 mesenterie lymphangeiti as substrate of peritoneal

Adrenals See Suprarenals

Age Senility of bone and its relation to bone repair 62 importance of in first pregnancy 358 changes in cervix uters due to with special reference to cancer development 441

Amenorrhoea Cyst of corpus luteum and 245 clinical

picture of temporary roentgen 539

Amniotic fluid Prevention of peritoneal adhesions by Amniotic sac Influence of artificial rupture of on progress of labor 449 Amputation Problems of 373

Amytal Effects of anæsthesia induced with 566 Aaæmia Advanced Banti s discase treated successfully by ligation of splenic vein 35 Banti s disease 141 local vascular changes in splenic aniemia 238 caused by roentgen rays and radio active substances 28

pregnancy and puerperium 542

Anasthesia Changes in spinal fluid following injection for spinal 13 obstetrical based on more than 20 000 cases 43 respiration circulation and musculature dunn 70 fatalities in spinal 71 paralysis of extra ocular muscle after spinal roo splanchnic in treat ment of paralytic ileus 132 phenomena accompanying spinal 174 277 278 468 origin of neurotrophic ulcers after sacral injections 17 splenectomy in Grucher s disease 238 cauda equina syndrome and spinal 277 avertin in children 277 nervous sequelæ of spinal 278 new method of inducing spinal with percaine 278 dilatation of cervix under spinal at term 361 blood pressure in spinal induced with 5 per cent novocam solution 385 influence of cervical paravertebral on pulse rate during operation on toxic thyro digland 421 induction of with avertin and pernocton 468 experi ence with obstetrical induced by barbital den ative and synthetic pantopon 543 explosions during use of ethylene 565 therapeutic indications for pernoc

ton 566 effects of amytal 566 Aneurism Epilepsy due to of brain 111 congental arteriovenous fistulæ 172 ori, n of miliary of super

ficial cerebral arteries 216

An ina pectoris Surgical suppression of pres or reflex in 118 present status of surgical treatment of 426

Angioma Changes in racemose arterial 272 Ankle Intra articular endothelial tumor arising from synovial membrane of 56 results of treatment of

tuberculo i of bones and joints 266 closed method of treatment of fractures of 461 Anthrax Medical treatment of 284

Antrum of H1 hmore Surgicopathological interpretation of

ray appearances of disease of 13

Anus Fi tula of 28 intraperitoneal closure of artificial in large intestine 23r technical details in operations for fistule of 232 carcinoma of 348 principles under lying succes ful treatment of diseases of 530

Apicolysi Thoracoplasty of apex with by posterior route

332 Appendices epiploica Torsion of omentum and 40

Appendicitis Acute as sequela of labor 27 operative mortality in acute 134 pelvic 134 mesenteric lymphad mus in adults su gestin occlusion from 342 treatment and postoperative course of with peritoniti 347 as cause of acute surrical abdomen in children 352 postoperative complications of 438 530 renal ptosis and 452

Appendix Poent enclory of 346 Aqueduct of Sylvius Obstruction of 5ro

Aqueductus cochiese Anatomy and physiology of a in flammations of internal ear with reference to 4

Arachnoiditis Compression of spinal cord with di sociation of sensibility due to 424

Areæ foraminosæ Inflammations of internal ear with reference to 2

Arm Treatment of fractures of by active extension without fixation 63 automatic reflexes of and their irradia tion 116 obstetrical paralysis of 263 surgical treat ment of ob tetrical paralysis 266 interpretation of pa n in embolism of arteries supplying large areas of extremities 380 Artenectomy Comparat ve value of and arterial li ation

in arterial thrombosi arteritis and gan rene 464

Arteries Chronic nodular periartentis 66 surgical and physiological value of arteriovenous anastomosis 67 congenital arterio enous fistulæ 172 effect of section of spinal cord on p essure in 177 ongin of miliary aneur ms of superheial cerebral 216 recent ad aaces in treatment of circulatory distu bances of extremities 272 interpretation of pa n in embolism of supplyin large areas of extremities 380 new method for roentgenography of in h ung 463

Artentis Comparative alue of arterial ligation and arteriectomy in 464

Artery Mechanism of act on of 1 ation of vein in oblitera tion of 273

Arthritis Traumatic and mechanical factors in hyper trophic 53 treatment of chron c infectiou sympathetic gan honectomy and trunk resection 5 220 classification etiology pathology and treatme t of chronic 163 mesenteric lymphadenitis in adults as cause of 27 etsology of rheumatoid 55 Arthrodesis Tuberculosis of shoulder and

articular for covalgia 60 correction of drop-foot by posterior 459 of pine in scoliosis 558 Arthroresis Indications techniques and results of tibio-

tarsal 61

Aschheim Zondek test Chorionep thelioma and 143 242 and indication for operation for chononepithelioma 143 techn que of test ng for pregnancy by demon strating hormone of anterior lobe of hypophysis in

Am thod fo the diff attal staining f grmp to dg mnegat b cte int u s cti s J H Brown nd L Brenn B ll J hns H 1 ki s H p B lt 193

1 1 60 A pdm thod f determ to f the sdmett t of the ed ll with r lts b lth dd H D HASK NS F E T OTMAN E E OSGOOD nd A H D HASK NS F E 1 OTMAN L E 050000 ma a
MATHEU J L b & Ch M d 93 487
Ag phc m th d fo m s g th cl tt ng t m f
bl d R H K Foster J L b & Chn M d 1931 vi

The bl d h! t lads & ald gn s I LANG Hydoni 1 1 the ly Pratra Swarrour J L b & Cl M d 93 47 C p d g p th l g al d t mic l f d g C trib t t th path l gy of twin W Sc E d kn l 193 68 ly Pratra d

### E pe imental Surgery

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Some ph s f el tros g ry from th experimental st ndpo t & L Mcl F N S g Gy ec & Obst 1011 52

R po t on r arcl lect g g Gyn c & Obst 937 l 5 r g ry B C C OWELL Ther t fle! sofel tos gclwou ds seep d by te 1 tegth J D ILLIS J \m M As 103 [571] Tmp rary co reat ft et be tran pla ted St desi re pt se E Kunanyi ich f kl

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Gyn A Obst 93 1 750 1 med e A E Bur CAY Brt JR d 1 93 1 60 Rp 1 of the Am n n C lig Rp 1 of the 03 1 of the Am n n C lig of See n 1 Indiadelph S rg Cy ec & Ott 93

Breast Tat necrosis of 14 roentgenological study of 14 etiology of neoplasms of 119 relation of neoplasms of to other tumors of reproductive system 110 primary hypertrophic tuberculosis of 110 bleeding nipple 222 primary tumor in carcinoma of 222 amputation of bleeding 222 anatomical structure of human nipple and its pathological consequences 327 diseas s of male 327 blue domed cysts and cancer of 328 problems for obstetrician in cancer of 328 sarcoma of 328 roentgen treatment of metastasis to vertebræ and bones of pelvis from carcinoma of 372 origin and malgnant degeneration of cystic disease of 427 borderline tumors of 427 endothelioma of 427 carcinomatous mastitis and carcinoma of in prenancy 428 treatment of malignancy of 474 517 518 giant intracanalicular myroma of 517 roentgen therapy in carcinoma of 518 metastases to skeleton brain and spinal cord from cancer of and effect of radiotherapy 518 results of treatment of cancer of

Brominol Roentgen physiological studies of gall bladder

with 351

Bronchi idenoma of 17 external fistulæ of following operation for hydatid cyst of lung 17 principles underlying treatment of intrapulmonary abscess and persistent fistulæ of 122 closure of fistula of 123 primary carcinoma of 124 surgical a pects of neo plasms of 224 mechanism of gas absorption in ob struction of 329 clinical features of neoplasms of 333 clinical manifestations of primary carcinoma of 333

Bronchiectasis Etiology of primary 428 Bronchoscopy In suppurative diseases of lung 224 in

malignant growths of lung 333

Burns Development of cancer in scars of 284

LCUM Diagnosis of early ileocrecal tuberculosis 132 leocæcal cysts 437

Caesarean section I ow cervical 153 results of low 153 253 cl nical studies of intraperitoneal 253 segmental

transperitoneal 545

Calcaneus Tuberculosis of in children 56 diagnosis pathology and treatment of fractures of 462 end results of resection of for tuberculosis 559

Calcification Intracranial in gliomata 216

Calcium Partition of in pregnancy parturition and toxermias 154 change in amount and for n of in blood during pregnancy 240 in blood serum in

relation to healing of fractures 459 Campiodol Se Iodized oil

Cancer Clinical evaluation of radium and rountgen therapy with vari us combinations of wave lengths in ad vanced 72 treatment of carcinomatous mice by cytotherapy according to method of Kousel talow 75 serological diagnosis of 75 mechanism of development of 75 radium therapy of 280 28 radiophysiological principles of ridiotherapy of 281 development of in burn scars 284 radioproteinamia and radio anaphylavis in patients with treated by rrad ation 389 findings of spec fic intestinal flora with mal gnant tumors 390 rôle of lymph stas s in genesis of 473 susceptibility to 473 influence of extracts of supra renal cortex on growth of 473 multiple primary malignant tumors 474 treatment of malignancy 474 heredity of in man 474 and smoking habits 474 radium in service of surgery 568 treatment of by dichlorethylsulphide (mustard gas) 570 See also names of organs

Carcinoma See Cancer and names of organs Ca diospasm and dilatat on of esophagus operated upon successfully by Hevrovsky technique 126

Cartilage Tate of transplants of 374 regeneration of hyaline in joints 555

Catgut Bacterial content of sterile commercial sterility of in relation to hospital infections 566 effective test for sterility of 506

Lathode rays Recent experiments on 567

Cauda equina syndrome and spinal anæsthesia 277 Cerebrospinal fluid Chan es in followin inject on for

spinal anasthesia 13 Cerchrospinal meningitis Treatment of

Cheek Radium therapy in cancer of 507

Chest Actinomycosis of 225 results of surgical treatment of new growths in 225 tumor of 336 33 surgery of tumors of 337 surgical treatment of injuries of 521

Chilblain En ma of 569

Cholecystectomy Technique of 31 ideal 31 bacterio logical study of cases of with special reference to anaerobic infections 32 end results of 32 external and internal biliary fistulæ following 138 com parative study of immediate and late results of cholecystostomy and for biliary lithiasis 235 hi tological changes in common duct after 53,3

Cholecystitis Mycotic 30 etiology of 30 effect of acut experimental on emptying of gall bladder 3r acute 137 motor disturbances of gastro intestinal tract in relation to pre operative and postoperative symptoms in chronic 137 epithelial proliferation and metapl sin in chronic 234

Cholecystography Intravenous and liver function deter mination 35 by oral method 351 mination 35 by oral method 351 Cholecystokin Liflect of on human gall bladder 234

Cholecystostomy Comparative study of immediate and late results of and cholecystectomy for bil ary lithiasis 235 alternating excretion of bile and mucus after in gall bladder stasis 439

Choledochus See Bile duct Cholelithiasis See Gall stones

Chondromatosis of joint capsule 52

Chordoma Sacrococcygeal 74 Chordotomy for intractable pain 11 425

Chorionep thelioma Hydat difo m mole and 38 and Aschheim fondel, reaction of pregnancy 143 o arian and pituitary changes associated with 143 Aschleim Zondek rea tion and in lication for operat on for 43 Aschheim Zondek reaction in malignant 242

Circulation During narcos s and possibilities of in fluencin it 70 direct obser at on of cerebral with closed cavity 110 advan es in treatment of dis turbances of in extremities 272 blood supply of

human parathyro ds 321 in bone marro v 370 Circulatory hormone in treatment of g ngrene of e trem ties 361

Cleft palate 3 8 operation f r

Climate Influence of on surg cal tuberculosis 47 Coccyx Chordomata of 74

Colitis Reg onal m gratory chronic ulcerative 27 serum

treatment for chronic ulcerative 345 Colon Rol of A ray in diagnos s of carcinoma of 27 re sult of treatment of carcinoma of at Peter Bent Brigham Ho pital Boston 27 elat on of diverticulitis of to carcinoma 27 diagnos s and principles of treat ment of carcinoma of 27 radium in treatment of carcinoma of 28 section of sympathetic ner es of d stal part of and rectum in treatment of Hirsch sprung sd ea and certain types of consilpation 136 int ape itoneal closure of artificial anus in large intestine 231 submucous lipoma of 231 dive ticulosis and dive ticulit's 342 mel nosis of 437 submucous Imomata of gastro intestinal tract 524 accination again t periton tis in surgery of 529

Colo tomy Int ap nt n al cl sue fat fcial n s in

I rg 1 test e 231 C mmo d t SeBl d ct Co) ct it I cls nbd sinartific lly duc d ro Co stip ti S ct o of sympathet c ner s of distal pa t d ect mine tantypes f 36 C t tu R s lt ngf m t otomy 457 rgc ltr t

m nt of n u ogen c 515

Co les en Surere l tra m a d 563
Co e ke topl sty n n m g tazablem talhefo egn
bod s of 6 su e f l g aft g f 1 r bb ts 5 5
Corp s lut um Cyst of nd am o hac 45 1 t n l

s r to of 45 cyst of d pr gn cy 5 Co tin U c f n Add so d sea e 364 Co tectomy Ant rolate al f inad q t c llaps of l ng

follow gp t rior trapl r l th r opla ty n pul

monary tube culo s 333 C a ar Tre true t 660 of d l sc ce 68 C xalga E tra t cul a thod sisf 60 l te e lt of tr true t 1 beginning by cu ettag d filling 376

m Se Skull Cru allg m tof knee Late e ults free tructs of nt ri r nde tern llat all game twithapo e rotic

flap 376

Cyst Derm d fr e pou h of D gl s 540 Cyst e du t Se Bile du t Cyst tis Te tm t ft berulu by uge y of sym

p thet c ervo s y tem 367 Cy to el Inguinal 38 Cystot my R sults of leet occagul ti n fte uprap be

in malignant t mors of bl dde 257 455.

Cyt Blo d eg of k 7 S d nam solog ns
Cytoth py Te tm t f c c omat m by
c din to m th d f ko s btalow 75

DEAFVESS Treatme tof onget celmeti with hghfeq eycurr t Deplin In t of kid ey nd 366 expe m tltdyofofkd y 55
Dhydrato Re lt obta dwth nh d nn ns
D lm p du Dilatt f cerv der sp der spin l

eth si at 1 mm by 36 Dem dytfe p chof Dogl 54 Dem dt mo 74

Dem dimo 74

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34 urge ip oblems peet dun 68 ig t n ftail

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8 nite imnt f u daile f tm b and

d de um dur g cut st g 340 D gestio Dist ba c of soc ted the eum th a

2 3 Detculits d'dv ticul i 342 D e tic losis d'de rt culti 342 Dol ho olon 437

D uela D rm d cyst fre a pouch of 54 D op foot C rect on of by po terio arthrode 459

Dod t Rvewofcs of 436 D ode m G stroduod al ham r hag r gard ng whi h

lett i known a path ge es fulce of in fimm tory b sof d elpme t ftype l k of a oe tgen apper ce i m bil 5 ett bill ulce of 26, c tepe forati gul ers of 6 r ults f op ato sio chrome. I e of 8 r. Its fga trote ost myf r je rof 29 rg calapet d d r sults 1 pept cule r3 immed at mo tality operatin forule r f r3 r ult of diffe t typs f fo ulcer of 30 mmed ate m rt lity and late e it of op tons for ler i 130 r ults of patis fo es n of uler of 32 acute fe perforation of le rs of 8 hyp rpl stic tube culo
of 2 re to n log c ld g fp pill m f 3t ulcers of 330 ubt talgat ectomy foule of 340
345 det totr tm nt f ndule of dn gaute tage 34 fulu es of t tm nt of ulc f 34 perid oden t 344 ulc r f 1 tabes dorsalis 434 c n t tulo a d b ed ty n p th g n s s of le r of 434 d gn ti al e froe ign a yb io a daft r t eatm t f r pept ulc 576 mech m f d p t nd rnes; ulcc of 57 ble is regry in te time t f p pti ulc r 537 impo ts e f ro ig exami t in ulcc of 58 c ro oma p rigatroduode al

Duplay d ca e 262 Dysm norther Rem te r ults of intervent ons n the p acr I nerve 444

EAR Ot eleros 2 3 21 sug al tetment of of scle 3 diff e popurat 5 d ecosing 1 flammat 5 inter al with p tienl r fre to aq d ct schlænd æ for mi sp 4 e rly stages f to clo t pp thos fe u d by e ob py g nic baet n 419 mald lopm t of u cl e te nal a o st c mentu and m ddl 4 9

p tho y feb lest t mand 419
Eat Ed Maternty If p tal Lod n Oga 12 t d
m th d of pa thee of 362
Ehr ccos C mpl at ns l 178 See lo ames of

Elmp I tet loga of 5 sympt matly p phylan a dt tm tf dt forunders 443 rp st off tm tf bytlph re silato 445 Elb w Rushes oft alme f tber loss fb d ts 266 ot ch duds f 37 h l g

d I to re its of fact e f 1 childre 460 formatio of esteemat at 556

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a te e spply by inge resoft extente 380 p phylote measure ag stp t peats 563

Empy m T tm tof cut 17 te tme t of m child 5

child 5 E epb! graphy As entge log tsho ldu d rst nd t

1 the dite ons f brain

Endocrine glands Diagnosis and treatment of diseases of

Endometrioma Tubal endometriosis and 247 of sigmoid in patient with bilateral serohamorrhagic cysts of ovary 356

Endometriosis After salpingectomy 144 review of eases of 147 tubal and endometrioma 217

Endosalpingiosis 144

Epilepsy Due to arteriovenous aneurism of brain 111 eve injuries in 418

Epitheliomata Superficial 390 Ergosterol Treatment of postoperative tetany with ir

radiated 3 2 Ethylene Explosions during use of 565

Exophthalmic goiter See Goiter Explosions during use of ethylene 565

Eye Unrecomized magnetic intra ocular foreign bodies and their leval aspects 1 optic atrophy and hematem esis i ophthalmological observations in brain abscess 11 paralysis of extra-ocular muscle after spinal anasthesia 106 changes in in paretie patients after treatment with malaria 210 influence of pregnancy on visual field 211 classification of optic atrophies 17 intra-ocular foreign bodies 313 injuries of in epilepties 418 in tuberculous patient 418 indications for kinetic treatment of 418

Eyeball Roentgen visibility of 210

PALLOPIAN tube Primary carcinoma of 38 endome triosis after salpingeetomy 144 strangulation and torsion of pedicle in congenital tubo-ovarian hern a 243 primary carcinoma of 244 245 endometriosis of

and endometrioma 47 Fat metabolism Intermediate in fetus 542 Femur Changes in head of after fracture of neck of 170

fractures of neck of 271 fractures at condyles of 461 Fetal mortality Frequency of forceps operations and 153 Fetus Death of one in twin pre-nancy 42 spontaneous expul ion of necrotic tibia of through abdominal wall

in extra uterine pre nancy 42 influence of roentgen rays on 72 investigations of death of following in duction of labor with quinne 152 passage of sub stances from mother to in last part of pregnancy 250 determination of maturity of in utero 358 influence of hereditary syphilis of progenitors on product of conception 362 variations in iodine content of thyroid of 420 congenital general hydrops of 450 inter mediate fat metabolism in 542 procidence of limbs of 544 dystocia due to idiopathic dilatation of urinary tract of 545

Fever Origin of after operation and importance of this re

action in pro nosis of operative results 174 Fibrous tissue Lymph exudate and 382

Fibula Fracture of shaft of both bones of leg 461

Filaria bancroft: Factors determining differences in types of lesions produced by in India 285

Fin er Meningeal spirochætosis resulting from infection of by contaminated water 114 conservatism in treat

ment of infective bone les ons of 375
Fischer's phenomenon Influence of glucose on Fistula External bronchial following operation for hydatid cyst of lung 17 anal 28 principles underlying treat ment of intrapulmonary abscess and persistent bronchial 122 closure of bronchial 123 external and internal biliary following cholecystectomy 138 esicovaginal 146 con enital arteriovenous 172 technical details in operations for anorectal 232 vesico-uterine following complete spontaneous rupture of uterus in labor 544 treatment of urethrorectal by inter urethrorectal myorrhaphy of levator an 55

Fluids Pushing of after operation 563

Foot Cysts of lon hones of 54 elimination of pain in obliterative vascular disease of by alcohol injections of sensory nerves of lower leg 66 operative treatment of lesions of lower extremities in diabetes mellitus 166

Forceps History and mechanism of 43 frequency of use of and fetal mortality 153 later fate of children de livered by 254 physiopathology of ureter subjected to

pressure of 453 Fractures Senility of bone and its relation to bone repair 62 repair of bone in presence of aseptie necrosis re sulting from 162 principles of treatment of non-umon of 169 treatment of by open operat on and direct fixation 69 pathological 376 osteosynthesis 377 plaster embedded skeletal traction in treatment

of 459 blood serum calcium in relation to healing of 459 See also names of bones

Frontal sinus O teomyelitis associated with inflammation of 507

ALL bladder Effect of acute experimental cholecystitis G on emptying of 3r bacteriological study of after cholecystectomy with special reference to anaerobic infections 32 effect of cholecystokinin on buman 234 roent, en physiological studies on 351 experiments with lipiodol and brominol light on of do 35 cholecystosiomy and stasis of 439 treatment of malignancy 474

Gall stones Ethology of 31 immediate and late results of cholecystostomy and cholecystectomy for biliary 35 white bile in obstruction due to 340 intestinal obstruction caused by 435 experiences in 1 500 operations for 532

Gangrene Comparative value of arterial ligation and arte sectomy in 464 circulatory bormone of pancreas in treatment of of extremities 561 progressive post

operative of skin 565 Gasserian gan lion Tumois and inflammations of 11 anatomy of Hartel technique in treatment of trigeminal

neuralgia 513 Gastrectomy Mortality and late results of subtotal for gastric and duodenal ulcer 340 subtotal for duodenal ulcer 345

Gastro-enterostomy Results of for ulcer of duodenum and

stomach 120 Gastro intestinal tract Motor disturbances of in relation to pre-operative and postoperative symptoms in

chronic cholecystitis 137 digesti e disturbances as sociated with pneumothorax 223 malignant tumors of 339 submucous lipomata of 524 subcutaneous

abdominal injuries 534 Gastrojejunostomy See Gastro-enterostomy

Gastroplasty on lesser curvature 342

Gastrostomy Prophylactic 25

Gastrotonometry Results of treatment of leasthenia by

Gaucher's disease Splenectomy in 238

Genital organs Origin of tuberculosis in male 367 relations between thymus and 444

Gunt cell tumors 52 results in roentgen ray therapy of

Glands Maxed tumors of salivary 105 carcinoma of Bartholins 145 neoformation of lymphatic 465

antagons m of male and female sex 537 Glands of internal secretion See Endocrine glands

Glaucoma Phases of secondary 1 vasomotor iridenclessis cum iridotomia meridionali in acute and chronic p imary 3 4 Gl oma Intracranial calcification in 216

Glossopharynge I nenralgia Surgical treatment of 114

1 esof

Gluc se I finc f I h ph m on 74 G t r h tu f G a s d s a e 7 result of roc tg n thrapy in 7 quest in f pdeme 14 the clik trut huma 4 pth logic latomy nd in 1 gy fth, dgl ind i B sdows de e 3 Latom t a f m of thy d 1 a d clidtel lpct of Badwsdee 3 Gon thos Te tm ot of with a idin salts s t eat

m tf ut 6 The first of the f

sde SeG te Ġ G awitz tumo 157

G wth N tu II win p th log cal 569

HEMATEMESIS Opt at phy nd Hematu Es nt 1 60 Hæm h g diathe Symptoms nd p th g c

Hæm ta Uefbda HdCyt flogbo Ue fb d s muscl fo 466 H d Cy t f log bo f 54 H d R sults hta d with d hydr to

H tadpen cy 52 HptdtSeBldct

Hep t od ode st my 38
He ed ty C tit tio a d 1 p thog ne 1 of g tod d 1 lee 434 of ca ce n m 474

d'd l lee 433 of ca ce nm 474
Impbrd tim Tru 39
If m Occult pg tn 2 lir ult of l gs uce
prat iv t l digu als daphagem te
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pp 558 

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Hyd tidd ea 5 Eh oc cos Hyd tf rmm 1 Adcho to p thek ma 38 an na d pit tary h ges a sociat d wth 43 As hheim Z d k e ct n in 242

Hyd hir cd I d e e f hype thy d smosc t ff e 8

Hydo pho Det btru ton of realp 1 by
ftw main 1 trs 45 compleat sad
esh of recto fe 1 pl b 6 256 gt r
t t 1 type f 364 vperim tal t dy of 45
tetm tof p ful 1ght by er to of 1
pd 1 d phropery 453

Hyd ps C ng n tal g eral 45 Hyperin l m Pa tial p nc e tectomy tr tment of

Hyp thyr dism The dityp f to ic 8

mothy in 8 if no of sereto fiee hydochic cd 8 cl lst dy of 4 s g al teatm t f 14 d soctdp th l gy 508 w th

o tets fibo cyt a 554
Hypophy seb S Pt tary glad
Hyst ct my Re lt ofr d 1 bdom n 1 f a c of

c ix ut 38 de el pment f ne cre al stump ft subtot ! 441

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wthsg ad 54 I at T tm nt f hyp eme Itrve t braldı kş şçö cin İt dy f clea t bral h a 556 c l fc tion of uclus p pos of 557
d pl em nt of l tr. tebral n l
p lp s 2 of 559

phps of spo Int tas Srg1 t tm nt f tube 1 f ; for n cyt f lum cau gob tru t n of i fat 6 r l 1 n l ps cled bopo of t l cleo dt p te cl of rso i s b gut 2 g cl n l pct te and p tho p n i of t b l's of d ls mph tr 23 ng of clamp 5 malg alt of digest tr t 339 wc the of m pp dt of digest tr t 349 wc the of m p p th of digest tr t t of cae dby blut y loul 33 nd of r t of cae dby blut y loul 33 blut to t n of 435 dm t t n f lis it to t n of 455 dm t t n f lis it d the s bt a by t trostome blut t of h the s b ta by trostomy b l w t of b strute of 436 tr tme t fm lg cy 474 s b m us boomat fg sto- test al tra t 524 ol f t n f ha illu w lch n to zema f acute b true f 5 8

In minate bon D rupt n fpel with t nof 460 Int suscept u of act rgcl bd m hld n 35

Iodiz d il Emuls fied e mp odol for graphy 6 mtrlt of bocptl i tio flpodol in
Pott d se e with papl gi 65 c mp d l
o tg n log c l i u liz t f body t 80 roentgen physiological studies on gall bladder with lipiodol and brominol light 351

Iridenclessis cum iridotomia meridionali in acute and chronic primary glaucoma 314

Ins Epithelial implantation cyst of ro6

JAUNDICE Physiological disturbances incident to obstructive 140 clinical significance of 140 relation of spleen to 140 obstructive 350 pathogenesis of forms of 350

Jaw Temporomaxillary ankyloses of obstetrical origin 200 cancer of superior maxilla 417 treatment of malig nancy 474 central tumors of lower 505

Jejunum Direct roentgenological signs of ulcer of 22 relation of pressure in closed loop of to clinical condi

tion 229

Jonts Malfórmations of of obstetrical origin 52 chondro matosis of capsules of 52 aspects of pathology of hypertrophic Charcot 53 intra articular endothelial tumor arisin from spowal membrane 55 sport injunes of 163 structure and growth of free bodies in 262 results of treatment of tuberculosi of 266 Robertson Lavalle operat on in tuberculosi of 375 tabetic arthropathles 457 climatic treatment of suggestion 6375 tabetic arthropathles 457 climatic treatment of suggestion 6375 tabetic arthropathles are considered to the control of hydrogeneration of hydrogeneration of hydrogenerations and operations and operations

KLRATOPLASTY 2 Kidney Reflex ileus in course of I thiasis of 25 surgical treatment of insufficiency of 45 hydro nephrosis due to obstruction of pelvis of by one of two main arteries of 45 present day surgical treatment of infected lithiasis of 47 staphylococcal d ease of 47 min takes in diagnosis of tuberculosis of 47 lithiasis of diagnosis of function of 755 morphological bases of insufficiency of 155 anatomy of stass of 155 tuberculosis of 156 atypical carcinoma of 157 Grawitz tumors 157 hemangioma of 157 necrotic sequestration of in pregnancy 251 perinephritic abscess 255 para enal tumors 255 complications and results of resection of pelvis of for hydronephros s 256 eff ct of denervation of pedicle of and ureter in pro duction of d latation of upper urinary tract 256 squamous cell carcinoma of pelvis of 257 serous cysts of 365 operations on solitary 366 leiomyoma of 366 innervation of and functional operations on 366 epithel al tumors of in adult 366 anomalous rotation of and associated anomal es 45x ptosis of and appendicitis 452 treatment of punful slight hydro nephrosis by enervation of renal pedicle and nephro pexy 453 present status of study of urogenital tuberculosis 453 denervation and displacement of ureter for colic of 454 treatment of malignancy 474 subcutaneous abdominal injuries 533 experimental researches on alternating function of glomerul of in ordinary conditions and in pregnancy 548 unusual forms of tuberculosis of 548 mi. ed tumo s of in infancy and childhood 549 experimental study of decapsulation of 550 m ved bype nephroid tumors of

knee Intra art cular endothelal tumor arising from synovial membrane of 56 new sgin of mjury of meniscus of 165 fundamentals of e mination of 165 end results of synovectomy of 66 non operative treatment of tuberculous joints of lower extremity 167 conservat ve treatment of surg cal tuberculous of lower extremity to treatment of tuberculouss of joints of lower extremity test properative fusion 167 injuries to semilunar cartilages of 265 results of

treatment of tuberculosis of joints 266 arthroplasties of 269 late results of reconstruction of antenior crucial hgament and external lateral ligament of with aponeurotic daps 376 traumatic luxations of 560 Kouschtalow treatment of carcinomatous mice by cyto

therapy 75 Kucmmell Verneuil syndrome Pathogenesis of 264

Aucmmell Verneuil syndrome Pathogenesis of 264 Aucmmell's disease 264 Aussmaul's disease 66

ABOR Acute appendicitis as sequela of 27 anæsthesia in 43 543 test of in managem nt of cases of con tracted pelvis 43 history and mechanism of forceps 43 mortality of va inal and abdominal method of delivery in placenta previa 44 repair after healin of complete tear of perineum extending to middle third of rectovag nal septum 148 investi ations into death of child following induction of with quining 152 fre quency of forceps operations and fetal mortality 153 calcium partition in 154 temporomaxillary ankyloses of obstetrical origin oo rupture of uterus during 252 later fate of children delivered by forceps 254 ob stetrical paralysis of upper extremity 263 dilatation of cervix under spinal anæsthesia at term 361 method of delivery and end results of occiput posterior posi tion 361 separation of symphysis pubis complicating 361 or anization and methods of practice of Last End Maternity Hospital London 362 influence of arti ficial rupture of membranes on progress of 440 co ordination of uterus in 543 obstetrical anæsthesia induced with barbital delivative and synthetic pantopon 543 procidence of limbs 544 complete spontaneous rupture of uterus in followed by esico utenne stula 544 course of in pr miparæ from forty to forty six years of age 545 dystocia due to dilatation of fetal urinary tract 545 effects of on child 546 Lachrymal gland Treatment of Mikulicz di ease and

Lachrymal gland Treatment of Mikulicz di ease i Mikulicz synd ome by irradiation 274 Laryn eal nerve Observations on Semon's law 42

Larynx Rochtgen findings in tuberculosis of 9 relation of to surgery of thyroid 708 g anuloma venereum with involvement of 109 treatment of malignancy 474 cancer and smoking habits 474

Lateral ligament Late results of reconstruct on of anterior crucial l gament and e ternal of knee with aponeurot c

flaps 376

Leg Afcohol myection of sensory nerves of for el minat on of pain in oblitenta te vascular disease 66 operative treatment of leasins of ind abetes mellitus 166 treatment of tuberculosis of joints of by operative fus on 167 conser at ve treatment in surgical tuberculosis of 167 non operative treatment of tuberculosis ontion of 167 recent advances in treatment of circulatory disturbances of extremities 272 problems of amputation of 373 fracture of shaft of both bones of 401 treatment of indolent uler of 561 circulatory hormone in treatment of gangrene of 561

Leucocytos s Origin and practical importance of post operative in prognosis of operative results 174

Leucorrhoea Trichomonas vaginalis vaginitis as cause of

145 in virg ns 246

Leukæmn Blood changes in and their bearing on roentgen therapy 381 Lip Radium therapy in cancer of mouth 507 epithelioma

Lip Radium therapy in cancer of mouth 507 epithelioma of 508 L pæmia retinalis 2

Lipiodol See Indized oil

L ver Function of with reference to sympathico adrenal response test 29 complications of hydatid d sease 178 clinical study of gumma of 234 1 trave ous chole cyst graphy and d termin ton of funct a of 351 d ngers of op tins on bile dut with pe 1 consdirat n of potpraty dsae of 352 trat bcutan o s abdomin l m t of malienancy 474 nj ne 534

Lumba pun t I tality and dager of a cral factue nd surg alte tme tof c eb al hæmo

Lung Complication 1 following operation 4 expe metlp ductin of priumo i and bes of by ita nos cult n ft phr et my 5 val f measu g v n u p su ourse fathcral g calı de t s n supp rat on hial fist læ foll wing p rat n t nal b for byd t d cyst of 7 T delenb g ope at n for p lmon ryembol m pricpl su de lyigtet m tofab e sof 2 p mmy eac ma of 3 primary cach ma of with m tasta e to central rso s syst m 14 pt mary ca un ma f and bronchi 14 rôl f g y in tube culo of 22 b tvat 0 n p t petat e t l ctas 22 th a opl ty n te tme t f t be c lo s of ph ectomy nd t my f r tuberc lo d at ons f and res it fat fic 1 pn u m th x teatm tin tube c 1 1 1 22 d gest v d tu b nce a oc ted with pneumotho a br n hose pe b er. the supported edisea caof 4 thompe of the x 225 postop at the hypo cult the not you all color gs excha g a d at leas 3 5 pobl m of p those and he at m a gme to fo brut u e atclet a 3 5 phodat d vst i 1 No th Am ri a 33 ad logic la p ct of t bercul s i a s cuat d w th gie lic 33 ad logic lap cts

tn han a feollap the rapy and tail de t n 33 t time t f t b reulo a of by the replate 332 tech q I the oplaty of ape the peolys by m hyn tgowths i 133 to leral otet my i dgu tech poi following pot i reta t of teral ot ct my pl ral th rac pl ty 333 intrathora ic tumo s 336 g ry f ntrath ra c tum 337 cance a d 8m king habit 474 roents ol g c l app r ee of t l ba and m d stale c psular d effu i n i th 50 ma c l b c l

50 ma eclipe feo iemplt fafctor n nen t lm rtal ty 546 dilatati 1 ymph And fib o a tas 38 ole of sta a of ung

Lymph d M's nt nelymph d ts n dults a ca of ps udo appendic ti indig ti da heea and a thriti 27 n format on of 365 p obl m f lymphade opathy with f neet Hodgkin d a e nd t b reul is 56

Lymphaintes Mesnt c nadults a aus ipe d ppe d tis 1 lg tin dia rhora a da th ta 2 7 Lyfophang t Manto a hdominal feu of inf t n sub t t of p ritone 1 dh and con ecting Ink betwee so-called c ad ry d se

338 d 1he r bea Lymphomabl t ma Blood cha g s n me tg n th rapy 38 g n tic neopla tic relation hip of H dgkin d e myco s i go d s a d al ukæmic dl kæmic 465

MALARIA Eyechanges | prt pat ts fie tet Malio mat o a Chn al contrib tons an ta Malig ney S & Can er Fpitheliom S coma

ot og 5 Malleolu Juxta et op o e l o te operati t tme t ff t f with post o mig i fragm t 560 Mandibl Se∫w

M sc ln at a Tubular (test cular) and sol if ms of and whi toma of ovary a dth r elat tumors of ova es leading t 443 538

Ma tits Carcinom t us and ea noma of br a t in pr gn ncy 428

Mastodts New pe ton frehr ne purulent 5 Maxila 5 Ta

Mar ow Crc 1 tion of 370

Marillary sinus S rg copatholog cal int rp etat on f ay app a ance I ntral dis ases 213

M than phy th py n u gery 69 M duastio m Ro tge ological study of upono a d poste r 334 ro ts, nolog cal app aranc of effu n ncapsulated 519

M gacolo S ct nof symp th tont e of d stalp rt f

col n and ret min Hirsch prug dease ta? in m Problem of 33 ndec fet cts of supra en ic t x on gr wth 1 473 Mlnm Prblem of 83

Mening Ori n and n to e f turn of 5 orign g truct e blo d s pply effects n b a n and techn qu f emo al f fib oblast mata of 51

M ngt Chrnc dheie pni scndtion f ope thy teeme trans in c c 13 spro has
to fring municut n free by cn
tams to dwate 4 addee ep nal 1 & t atment
of c bopus 1 2 r
op Nrop adm tal manufatio of 240

M op ait eff et fintr uterine adi mi pr d t nof a tific al 46 bl ding ft sens of c rest ma of

ut ru 354 M no hag Radium u and i r gular utenne hæm thag 246

Menstru tion Reacti n of ut rine m s I tu e d ring m n tru leyele 37 rec nt d ances in phy logy of 4 distribuces fol ran rgn 46 and i gular ut n hamo hage lo anan ongun 350 m ters its f niers nt na n p esacr i nerve in

gynecol gy 444
Me ntery Lymphad nt fin d lisase ne ipe do

Me ntery Lymphad nt fin d lisase ne ipe do pp ndic ti nd ge ti n da hosa and a thr ti 227 int a abdom n l dium g ry 281 lymphang tisol s bdomi also u i nfect n ubstrat of per to eal dh so s and nne t g link between so-call d c ndary d e s s 338

Metaboli m L w bi al with ut myxiedema a 3 i t m diate it inft s 542

tme tof d Mikul cz syndrome by Mikulicz dise se I 1 diat on 74

M rtahty Fr 1 e cy off cep ope at o a df tal 153 Mo th R d mt eatm nt f a cinom f 317 m lign nt tum i dig sti t act 330 can e nd m king bab ts 474 t tment i m i gn ncy 474 rad um the apy n can er 1 5 7

Yu cle Contractu of form t n tomy 457 5 fbrd s

a hæm statcag nt 466 Mucle Beha o i dungaro 7 pott mitc ossaficati i 37 elimato teatmit i sugal

tub reulo s 472
Mu t rd ga T atme t f an by 570
Myc 1 fu god s Gen tic ne pla ti I t ship

H dgl d e e aleukæm and i ukæm e lymph blat maad 46 Myelt S he sand f m comp ess n 371

Myef ma Multiple 450 My meet my T chn qu a d sults of 44 Myxordema Low ba al m tabol m with ut 213

NASOPHARYNX T mors of 42 N ck Bio d cy ts 1 g 0 f 7 N dip not e B pyby nd p t Nephrectomy Changes produced by presence of foreign body in ureter remaining after 158 heminephrectomy for calculous pyonephrosis in case of bilateral duplica tion of ureters and pelves 257

Nephritis So called tuberculous and tuberculous bacilluria

365 in pregnancy 543 Nephrolithiasis 50 reflex ileus in course of 25 present day surgical treatment of infected 47

Nephropexy Treatment of painful slight hydronephrosis by enervation of renal pedicle and 453

Nerves Elimination of pain in obliterative vascular dis ease of lower extremity by alcohol injection of sensors of lower leg 66 alcohol injection of roots of for thrombo anguti obliterans 173 observations on theory of trophic 175 of kidney and functional operations on kidney 366 re eneration of peripheral 514 surgical treatment of neuro-enic contractures 515

Neural ia Surgical treatment of true glossopharyngeal 114 treatment of of trifacial nerve by surgery of sympathetic system 324 Hartel technique in tri em mal 513

Neurectomy Phrenicectomy and intercostal for pulmonary

tuberculosis 222 Neuratis Late ulnar 218 ascending post traumatic of extremities 218 treatment of ascending by surgery of sympathetic nervous system 220 chronic retrobulbar 316

Neurogenic contractures Surmical treatment of 515 Neurotrophic ulcers Origin of after sacral injections for

induction of anxisthesia 175

Newborn Toint malformations of obstetrical origin 52 influence of roentgen rays on offspring 7 investiga tions into death of child following induction of labor hy quinine 152 later fate of children delivered by forceps 254 obstetrical paralysis of upper extremity surgical treatment of ob tetrical paralysis 266 in fluence of hereditary syphilis of progenitors on product of conception 362 de elopment of children born after temporary roentgen ray sterility of mother 389 con genital general hydrops 450 effects of pregnancy and labor on child 546 incomplete dilatation of lungs as factor in neonatal mortality 546

Nipple Bleeding 2 2 anatomical structure of human and

its pathological consequences 327

Nose Plasmocytoma of nasal cavity 5 plastic surgery on nasal pyramid by Sheehan method 212 conservative treatment of nasal sinus cases 213 pathology of chronic sinusitis 213 pseudotuberculous forms of tertiary syphilis of and pharynx 316 pathology of

alle gic tissue in and accessory situses 317 Novocan Intrasacral epidural injections of in treatment of sciatica 218 blood pressure in spinal anæsthesia

induced with 385 Nucleus pulposus Calcification of of intervertebraf d sks 557 various displacements of intervertebral 559 Nystagmus Latent 418

OCCIPUT POSTERIOR presentation Method of de Edema Traumatic and forensic medicine 390

Esophagotomy Posterior thoracic for fore gu body in

cesophagus 431

Esophagus Stenoses of 125 cardiospasm and dilatat on of operated upon successfully by Heyrovsky tech nique 126 roentgen picture of perforation of thoracic 126 posterior thoracic resophagotomy for foreign body in 431 treatment of malignancy 474 diseases of 520 cancer of treated successfully with radium 521

Omentum Intra abdominal torsion of and appendices ep ploice 240 metastasis of thyroid tissue to ab

dominal organs 240 intra abdominal radium surgery

Operation Postoperative pulmonary complications 14 painful abdominal scars following 20 ambulatory treatment hy plastic supportive bandages of throm bophlebitis following 66 origin of leucocytosis fever and azotæmia following and importance of these reactions in pro nosi of results of 174 changes in asepsis of paraphernalia for 175 tetany after 215 atelectasis after 222 transverse incision of abdominal waff for in hypochondrium 227 unnary incontinence after 258 pulmonary hypoventilation after 276 treatment of parotitis after with radium 313 treat ment of tetany after with irradiated ergosterol 322 trauma of and convalescence 563 pushing of fluids after 563 prophylactic measures a ainst thrombosis and emboli mafter 563 umlateral injury to diaphragm during 564 progressive gangrene of skin after 565

O calcis See Calcaneus

O testis deformans Generalized with secondary malignant de eneration 26 Osteitis fibrosa Parathyroid enlargement in 456 hyper

parathyroidism with 554 progressive treated by parathyroidectomy 554

Osteochondritis dissecans Results of operation for 268 O teosynthesis 377

Ot tis Diffuse suppuration and necrosing inflammations of internal ear and their relation to aqueductus cochleæ and area foraminosa 4 hacteriological study of sup purations of ear caused by aerobic pyogenic bacteria 419 anatomical aspects of Gradenigo a syndrome 506 Otosclerosis 2 3 surgical treatment of 3 early stages of

212 bone picture of 212 Ovaritis Puerperal suppurative 361 new surgical pro-

cedure for treatment of sclerocystic 537

Ovary Dependence of uterine musculature on functional phases of 37 tuhular (testicular) and solid forms of andreioblastoma of and their relationship to mascula tion 30 origin of Krukenhe g tumo s of 40 influence of roentgen ays on off pring 72 changes in asso ciated with hydatidifo m mole and chononepithelioma 143 cell changes in of sexually mature white mouse after roentgen irradiation 143 tuberculous cyst of 144 menstrual disturbances due to 146 metastasis of thyroid tissue to abdominal organs 240 strangulation and torsion of ped cle in congenital tubo ovarian he ma 243 pregnancy with b lateral cysts of 252 mah nant tumors of 355 endometrioma of sigmoid in nati nt with hilateral serohamorrhagic cysts of 356 menstruat on and irrevular uterine hamorrhage due to 356 affuence of condition of reticulo endothelial system on takin of homoplastic grafts of 382 studies on human 412 function of tumors of leading to defemininization and masculinizat on 443 treat ment of malignancy 474 antagonism of male and female sex glands 537 variety of tumor of that leads to masculmization 538

PACHYMENINGITIS Adhes ve spinal 116

Paget s disease of glans penis 259

Pain Chordotomy for intractable ir 425 recurrence of after operations on bile ducts 139 interpretation of in embol m of arteries supplying large areas of ex tremit es 380 mechanism of production and path ways of 472

Palate Congenital insufficiency of 5 method of operat on for perforations of hard 2 3 cleft 3r8

Pancreas Clinical exploration of and intravenous injection of purified secretin 33 subacute pancreatitis or so-called acute eedema of 34 l gation of tail of in

jeldbte 139 al of bloods gradd taed temm to dgn sdtem at a fop rat dton dft tetm tact dsof 235 sb ta ou abdom lipure 534 arcltryh m eof t im t fga gen

fet mit 56 Pc tect my Patial codt ns lhypri l m

P c tus A te 34 s b t 34 c test stul n dabet cm 36 ch nc 36

Patpn Obst trical næsthe 1 d ced by dm stra of b btldn tve com to with syn

th t 541 tra la mu l aft p l æsthe l 6 h tetneal of ppe e t m ty 63 ugel t tm t f b t tree l 66 fi d obbre ty ol pel as

d t 557 P athy od tomy E pe im tal heal g of bone ite 169 pgs eott fibo cyst atr t dby 554 thy d T mo of dch g sofb 99 blood thy d lime of clar gson specified in a geff tof X rays o 42 pot op at e uff cy of 42 enl gem t l ot t fbr g alsata 456 hyp rpla of with ot t fbh cystca 554

th t 455 Fy ha pt twith t ted with malif

Potdgld Tmrs foo Ptt Ttmt fpostp

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labo 1 cs of nt cted 43 nt ol l m b d ty
y l 148 fi mm ti labo ic s of nt cted 45 nt ol 1m bd dy dm ttyfold w y 1 148 d mm tt f b t t i li li li d le g b t t t i li li li d le g b t t t i li li li d le g b t t t i li li li d le g b t t t m t of met at a t f m c ma of b t 37 p t o a d lats t of 378 d p t n f w th l at of n m te b 40 p t n f w th l at of n m te b 40 p t n f w th l at of n m te b 40 p t n f w th l at of n m te b 40 p t n t b b t 37 p t o a d li m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w th l at of n m te b 40 p t n t w t n m t

I ymp the tomy Se Symp th tomy Pritt Che dul 66 P du de t 344

Pripht bs

Priphtbs 55
PmRpftehealgofompittrfetd
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Phrynx Pse d t be lou foms ft t rysyphls f

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c v Unlat lpa lys fd pb gm by e l n f a ton fphr ic r p rat ry r pratry e hag 50

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pt trygl d 54 Pla enta p # 25

pt trygt a 54
enta pr 25 358 mortal ty f g l d b
d m fm thods of del ry 44 te time t f 359
stat teal st dy f t J h s Hopk s H spt l 446
C mplc t bd min l dise es 4 gr t bd min l dise es 4 ga t ma f 334 treatme t fo pe trat gwud of

P um tomy 4 9 em is kprim tlpd to f dlgb bymt e cft sfteph ctmy by mit e cft s fte ph ct my s em t n l e tgn s bil ty fey h ll dpos bil ty

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Presacral nerve Resection of in treatment of cord bladder 115 treatment of tuberculous cystitis by surgery of sympathetic nervous system 367 remote results of interventions on sympathetic in gynecology 444

Primiparæ Course of labor in from forty to forty six years

of age 545 Procidence of limbs 544

Prostate Advantages of perineal route in treatment of various diseases of 159 calculr of 368 treatment of malignancy 474 carcinoma of 55r

Pseudoretinoblastoma Unrecognized 106

Puerpersum Reaction of utenne musculature to functional phases of ovary during in rat 37 ambulatory treat roent of thromhophlebiti in with plastic supportive bandages 66 incidence of infection in due to anaerobic streptococci 153 renewed attempts at treatment of fever in with immune serum 154 suppurative ovaritis in 36r immunotransfusions in infections in 440 chuical consideration of anæmia of 542

Pulmonary artery Trendelenburg operation for embolism of 121

Pulse Influence of cervical paravertebral anasthesia on during operations on toxic thyroid gland 421

Purpura as acute abdominal emergency 238 Pyelitis Treatment of and pyelonephritis 45 acute surgi

cal abdomen in children 352

Pyelo raphy Untoward results in bilateral 364 Pyelonephritis Treatment of 45 differential diagnosi and

modern treatment of 45 gonococcal 156 Pyelovenous reflux 452

Pyloric stenosis as cause of acute surgical abdomen in

children 352 Pylorus Resection of anterior half of 128

Pyonephrosis Heminephrectomy for calculous in case of hilateral duplication of ureters and pelves 257 Pyrexotherapy with treponema hispanicum in Uruguay 77

QUININE Investigations into death of child following induction of labor by 152

RADIO ANAPHYLAXIS in patients with can er treated by irradiation 389

Radioproteinemia in patients with cancer treated by irra

diation 389 Radium In treatment of carcinoma of rectum and colon 28 348 430 bacterial flora in carcinoma of uterus after treatment with 38 intensity of gamma rays at surface and in region immediately surrounding ,2 clinical evaluation of and roentgen therapy with various combinations of wave len the in advanced cancer 72 operation and irradiation in cancer of uterus 243 in roenorrhag a and irre ular uterine hæmorrhage 246 after effects of intra uterine use of for production of artificial menopause 246 dosage measurement in surface treatment with 80 in cancer therapy 280 use of in intra abdominal surgery 281 radiophysiological principles of rad otherapy of can cer 281 postoperative parotiditis treated with 3r3 in treatment of huccal carcinoma 317 and surgers in cancer of tongue 318 treatment of cancer of recturo with 348 radioproteinæmia and radio anaphyla 1 in patients with cancer treated with 389 value of as compared with radical surgery in rectal cancer 439 treatment of malignancy 74 m cancer of mouth 507 effect of in ca es of metastases to skeleton brain and spinal co d f om cancer of breast 518 cancer of ocsophagust eated with 52r roentgen control in treat ment of uterus with 537 in service of surgery 568

Kadıu Treatment of fractures of upper extremity by

active e tension without fixation 63

Ramsectomy See Sympathectomy

Rectum Radium in treatment of carcinoma of 28 348 349 section of sympathetic nerves of distal part of colon and m treatment of Hirschsprung s disease and certain types of constipation 136 technical details in operations for fistule of 232 radical operation for cancer of 232 two stage abdominoperineal remo al of cancer of 233 cancer of 347 348 skeletal metastases from carcinoma of 349 villous tumors of 438 value of radium as compared with radical surgery for cancer of 439 treatment of malignancy 474 principles underlying successful treatment of diseases of 530 removal of portions of malignant tumors of for con firmatory section 530 treatment of urethrorectal fi tulæ by interurethrorectal myorrhaphy of levator anı 550

Rectus muscle Paralysis of external after spinal anæs

thesia 106

Reflexes Automatic of arms and the rirradiation 116 Renal artery Hydronephrosis due to obstruction of renal pelvis by 45

Respiration dunn narcosis and possibilities of influencing 1t 70

Respiratory exchange Action of phrenico exercis on 519 Reticulo endothelial system In obstetrics and gynecology 42 influence of condition of on taking of homoplastic ovarian grafts 382

Retina Lipæmia of 2 cystic de eneration of 106 treat roent of detached by searing tears of 211 modifica tion of Gonin's surgical roethod of treating detach

ment of 211 pigmented degeneration of 418 Retinoblastoma Unrecognized 106

Retrobulbar neuritis Chronic 316
Robertson Lavalle operation In joint tuber ulosis 375 in Pott s disease 358

Roentgen my Recent experiments on cathode rays 567 Roentgen ray diagnosis Of laryngeal tuberculosis o en

cephalo mphy as roentgenologist should understand it to encephalography in fixed lesions of heain to roentgenological study of breast 14 patholo ical thymus in children from roent enological standpoint 18 of gastroje junal and jejunal ulcer 22 of mobile duodenum 25 of carcinoma of colon 27 intravenous urography 48 49 259 intravenous urography in diagnosis of urological d seases in childhood 49 com parison of technique for study of cerebral circulation 110 of perforation of thoracic resopharus 126 of bone tumors 162 of paravertehral ahs ess in tuberculous spondyhti 165 roentgen visibility of eyeball and possibility of traumatic pneumotenon ro of antral disease 2r3 of papilloma of duodenum 231 in ob stetrics 249 intravenous prography with sodium salt of 5 todo 2 pyr don N acetic acid 59 use of emul 1 fed campiodol in urography 260 280 use of campiodol rn roentgenological visualization of hody cavities 280 of pulmonary tuberculosis associated with surgical foci 33r roentgenological study of superior and pos tenor mediastinum 334 of enlarged thymus 334 roentgenology of append t 346 intravenous chole cysto raphy and liver function determination 351 roentgen physiological stud es on gall bladder Imiodol and hrominol light 35r cholecystography by oral method 351 untoward results in bilateral pyelo raphy 364 telestereoroentgenography 387 of gast c syphilis 433 new method for roentgenography of arteries and veins in living 463 roentgenological changes in sarcoid and related les ons 470 of inter lobar and in diastinal encapsulated effusion in thorax 519 of gastr c tuberculosis 525 of peptic ulcer 526 of duodenal ulcer 528 roentgen control in rad um

th app of te us 537 u e of u el ctan : retu Retgryt met Of yrgmylate fthy moma ymf fr tgrays a ffsprig y lancical u fwth a sembatus f wvlgths ad cd cyzytes \ranglera well giths and ca c 72 and a born of kincued by rep t d blood t a f s 72 lts of got 17 ell ch g s o ry f sex lly m t e whit mo aft 143 M k l sex my m t ewnit mo att 14,3 Mkl d
s nd Mklcz yndr me 74, ado-aphy
l nomlog sm 8 d phy lo
p ncplsi of c 8 zema ans dby 28
diat a m fdiffeett gc ta te 83 of meta ta st ve t b m a d bon fpel f m cac ma fb eat 372 bl od hag l kæm a dlymph mata ndth be rigo 38 lue fc ta meth dsofg e lt tm tof oprble oplsm 38,4 mg lmt ft ler e d sag 387 dist bt of rgy deep 387 b f lat jryf m a shown by vpe m tso mals 388 d lpm t of bid n boru aft

t mp ry entg ray terlty of rath 389 ffect fo thyr d nd p rathyr d gl ds 4 of an ebit uma 44 fga teelt mo 47
fml y 474 fca fb st 57 58
ft f fmt ts ofskel to b a d
p l odfrom e fb ea t 58 linucal p t
ft mporary o t am or hoe 559 of flam

mtryodtı s 567 SACRO ILIAC pot t F ct td t b soft pad

rum Ch dm ta f 74 ry glad bled tum rs f 5 t tm t of Mkl d d Mkl ynd me by 1 ad

S lp g t A ut ntests loc l บเรโ Sil it of it clepd | tosf n treat
m tof t 8 dmn trat fblwst f
b h btrut f t 4,56
S c d Po tg | g c l ha g in 47

fttfsplorte 3 defertate od 11 57 S ma Infl g wth f 473

to lp G nt wu fh ry 4 7 S p l D pl y di 6 fi i fixed by bolt g w tb

nd lpo top t abd m al d lpm nt f It lpd l 1 to t tm tf 8 St. And my liff in mp 33 f p ti 458 th d s fsp Sc tm A | f ss S tm Clinical splic tn fp n s 37 t ted by

S mil b N o f 54 S miluna catilag I j sof

sof 65 fth I mmlgtl S min I es cle Ongin f t b 367 Sm lw Ob reat on 4

Sptcem Def b te p ym 76 myc t wth eb l ped m d c of p rp al eblpedm dcotppal inftodta èbtrptocc 53 ttm t fprplfe with minuce rum 54 suum ttm tofbatæmid to beemolyte trpt ccs 84 imm tranf saprplinf

tio 449 mmun I gcal p bl ms 1 57 Spt m l cd m T mo f x S rum Att mpts t teat p rp 1f with mm 54 int tmnt fbct æmad toth hæm lytc streptor s 284 inteatment fich clice t e olitis 345

Sb h sop t o slpy amd 12 Sb k Effect f ct noisp lood at mipes e

geal dtr mtc 77
Id Joan m form to f ob t trical tb loss fad throde 58 pe tet tm nt flabt 1 nt and downwald 1 to f 160 hume cplrp rthnts 6 263 pa fl stiff gof 63 hab tldislocat of 70 ollid becomab tes. Sho 1d

II d b commalb ts 37 Sgm d C d met oma of p ts t with blat alse

hæm h gic cysts fo y 356 S s Sa g cop thologi li t rp etat o of \ y app r

s on group monogn in 1 trp etatto of V yapp r ance fd a cof ma. Blay 2 3 ot my litus cust d ith fi mmat of fr tal 507

s c C serv t et t ment of ds of n l 2 3

p th l gy of ll g ct ea 1 sea d acc
sory 37 tr tm 1 pp ration persistin aft

op t n pa ssl 5 7

ts Path logy f chro 2 3 steomyelitis sso crated w th fr nt 1 507

Sk letal tract o Plast mbedd d in t tm t of f tur 5 450

Sku Ext e "x y bu feu d by peat d blood t sf 7 t eatm t of m lg a cy 474 p o g ep top t eg gen f 565 skell Su meat nd eat a treatm t of f et

Skull Sugnest adeats a treatm toff ct f ft mtccra ocrballs 43 u froet g rays; t tm t fc oce b ltra ma 44

and ge flumb pu tur infract resol 510 Sm king Can ad 474
Spb op lt g gli 12 p t t f kold
gard gphe m du to 37
Spina bidd With lidt m 3 5 lumbosac al 3 5
Sp le rd Cysted rmod t mo 1 12 esect of p ttt fkolde

c t er at tment f ord bl dd r 115 p mary care maoil go than t t t c t linet s
ytm 4 fi tof cti fo t lp
1 gct dt mat shok 177 mp so f
by localized a che dt dt trad llaryt m
with docut n fe blty 1 syr g myclat
4 4 asclrt mors of 5 anat m l d l cl t dy f tram dullary t m f 5 3 m t ta t

fom cac ib tad fict frd th rapy 58

form cac ib tad firther disrapy s & line g t Ch adh e a ond to f opra t tetm t dies 5
Lir lits of orvit talm t funcm plc td compes f tre f 63 paranteb 1
lits 65 p hig i f ku mill v mel y no dy die 64 pt mill v mel y no dy die 64 pt mill v mel y mel no dy die 64 pt mill v mel y mel no dy die 64 pt mel v mel no dy mel no dy he f mel no dy he f mel no dy he f mel no dy he mel no dy mel no dy mel no dy he mel no dy mel no dy he mel no dy mel no d its of a b cptal 1 ton flpodol d wth p piga 65 m plat time t fehr me the b f yr rentg nt time t f the mat st et base mean im of b ast 37 in st 378 try t b l d sk 556 le

In st 378 trv th ldsk 556 le the lham 556 phys to 556 phistat for clup lps f terr thraid ks 557 at hod of lo 558 Ptt d s p t dp obyRb t L ll pc d 558 dpl m mt f trv teb t l pulpo 559 m pult d t of rush f ct of 559 e P mmay roma f 35 ll t de 35 d t b of 16 d t bo f 18 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 16 d t bo f 18 d t bo f 16 d

s bdomi lnjn s 533

Splenectomy in Gaucher's disease 238

Splenic vein Advanced Banti s disease treated successfully by ligation of 35

Splenomegaly Egyptian 35

Spondylitis See Spine Spondylolistbesis 457

Sprengel inci ion for operations in hypochondrium 227

Sprue Tropical 177

Sterlity Advances in treatment of female 356 develop ment of children born after induction of temporary in mother by roentgen irradiation 389 causative

factors in 540 in male 552

Stomach Influence of byperthyroidism on secretion of free by drochloric acid in 8 acute dilatation of and trauma ar certain gastroduodenal hemorrhages re gardin, which little is known 22 direct roentgenolo 1 cal signs of gastrojejunal and jejunal ulcer 22 patho genesis of gastroduodenal ulcer 22 inflammatory basis of development of typical ulcer of 23 bacterio logical and clinical study of ulcer of 24 surgical treat ment of ulcers of superior third of 24 multiple adenopapillomata of 24 acute perforating ulcers of 26 effect of consistency of diet on bealing of ulcers of 128 results of operations for chronic ulcer of 128 results of gastro-enterostomy for ulcer of 120 ultimate results and functional results after different types of operations for ulcer and cancer of and for bour glass 130 ammediate mortality in operations for ulcer of 130 immed ate mortality and late results of opera tions for pepti ulcer 130 surgical aspects and end results of peptic ulcer 130 results in surgical therapy for ulcer of 130 sarcoma of 131 d gestive disturb ances associated with pneumothorax 223 diabetic treatment of patients with inoperable cancer of 2 8 carcinomatous de enerat on of polyp of 228 acute free perforation of ulcers of 2 8 bæmorrbage of due to familial telangiectasis 339 gastroduodenal ulcers in children 339 mali nant tumors of di esti e tract 339 mortality and late results of subtotal gastrectomy for ulcer of 340 dietetic treatment of round ulcer of during acute stage 340 reflections on fatlures in ulcer of 34r roentgen diagnosis of syphils of 433 myroid schwannoma of 434 constitution and heredity in pathogenesis of gastroduodenal ulcer 434 peptic ulcer in tabes dorsalis 434 treatment of malignancy 474 submucous lipomata of gastro intestinal tract 524 results of treatment of leasthenia of by gastrotonometry 525 roentaenolo ically studied cases of tubercu losis of 525 syphilis of 525 diamostic value of roentgen ray before and after treatment for peptic ulcer 526 mechanism of deep tenderness in ulcer of 527 rôle of surgery in treatment of peptic ulcer 527 carcinoma peri astroduodenale 528

Streptococcal infection Infective granulomata and 178 Sturmdorf operation on cervix uten 354

Subacromial bursitis So called 370

Subphrenic abscess 141 440

Sugar Value of determinations of in blood in diagno is determination of operative indications and after treatment in acute disease of pancreas 235 treat ment of hypere nesis with and insulin 542

Suprarenal Liver function with reference to sympathico adrenal response test 29 extract of adrenal co tex sub stance 179 use of cortin in Addison's disease 364 in fluence of extracts of cortex of on carcinoma sarco ma and melanoma 473 Addison s d sease 547

Suprarenalectomy Attempts at cure of experimental p n creatic d abetes by 34

Supraspinatus te don I athology associated vith rupture of 555

S vallowing Normal mechanism of 320

Sympathectomy Treatment of chronic infectious arth ritis by sympathetic gan lionectomy and trunk re section 57 220 resection of presacral nerve in treat ment of cord bladder 115 anatomical result of pen arterial 117 sur ery of sympathetic system 117 chinical results following sympathetic ramisection 117 angina pectoris treated surgically by suppression of pressor reflex 118 section of sympathetic nerves of distal part of colon and rectum in Hirsch prung s dis eas and certain types of constipation 136 anatomi cal fundamentals of surgery of sympathetic nerves 210 Surgery of sympathetic nervous system in ascend ing neuritis 220 effect of denervation of renal peduncle and ureter in production of dilatation of upper unnary tract 256 surgery of sympathetic nerves in neuralgia of trifacial nerve 324 innerva tion of Lidney and penartenal 366 surgery of sym pathetic nervous system in tuberculous cystitis 367 present status of sur ical treatment of angina pec tons 4 6 remote results of intervention on sympa tbetic nerves in gynecology 444 treatment of pain ful slight hydronephrosis by enervation of renal pedicle 453 denervation of urcter for kidney colic

Sympathet c nerves Activity of lumbar 210 Symphysis pubis Separation of as complication of labor

Synovectomy End results of in knee 166

Synovial fluid in health and disease 162

Synovial membrane Intra articular endothelial tumor arismo from 55

Syphilis Influence of bereditary of progenitors on product of conception 362 transmission of by blood trans fusion 56r See also names of organs

Syringomyeha Treatment of by roentgen therapy 12 surgical treatment of 424 compression of spinal cord by localized arachnoiditis and extramedullary tumor with dissociation of sensibility as in 424

TABES dorsalis Peptic and duodenal ulcer in 434 arthropathies associated with 457 Tarsus Indications techniques and results of arthroresis

of tibia and fr Telan sectasis Gastric bemorrhage due to familial 339

Telestereorgentgeno raphy 387 Temporomaxiliary joint Ankyloses of of obstetrical origin

200 Tendons Transplantation of 58

Tenotomy Contracture resultin from 457
Testicle Tors on of 259 on an of tuberculo is in male genital organs 367 primary malignant tumors of ectop c 552

Tetanus Chnical course and treatment of severe was cured 384

Tetany Postoperative 215 treatment of postoperative with irradiated ergosterol 322

Thoracoplasty General considerations of role of surgery in pulmonar, tuberculosi 222 in treatment of pulmon ary tuberculosis 322 mechanics and indications of massive collapse therapy 33r technique of apexvitb apicolysis by posterior route 332 treatment of pul monary tuberculosis by 332 anterolateral costectomy for madequate collapse following posterior extra

pleural 333 Thorax S e Chest Throat See Pharynx

Thrombo an utis obliterans Alcohol inject of nerve oots to 173 recent advances 1 treatment of cir culato y disturbances of extremities 272

Th ombophl b tis Amb l to yt eatm t f postoperat ve a d p rpe al w th p! t c suppo t bandages 66

tr tm nt of 73
Thrombo s A d mbolism 272 t tm nt of 273 c m
p ti ev l of art allig t na da tenectomy n rterial 464 p phylact mea e against p t

pe t 563
Thymom D g o and t tm nt of 19
Thymu P th log al 1 hd n f om roe tg olog c l ymu r in log i i nia niam roe is ologic ; st dp t 8 d gn nd te time t i thymnom 9 hyperpla a of 5 oc tg l gy f fa cy d diff nt l d g s of enlag d d ts tret m t 334 r cognit of ca f 335 h stolog I chag f pe p besce t bh 1st, ted nith n specifi p g cy hormo e 444 r lat o s betwee

tal org 444 Thyr d Echmo o cu cyst f 7 el to flryn to s rg ry of 8 d g d t eatm t f thy osignyof 8 dg dteatm t fibyo-pottrydy 79 physop th'my f 4 meta ta oft of t bdomin 1 g 4 patho-lgcat tmy dhstigy f n B sedows d eas 3 ito feetinfirm fac ad lid t 1 pertue of B dw d see 51 eil t f y n 4 ant s de cotet tn p 5 p ad fetal a B de cotet tn rt b 1 næ thes n pulse rate d ring p rat o s tox 42 treatm t of malign cy 474 byper thyr dism dass tdp thlgy 58
Thyrod tmyf thy t co ft inft thyear of g

Thy t xicosis Thy dectomy f after filt cth y

ge 59
The C 8 mt lps ud thos f 55 deatons tech
qu ults f those of dt s 61 fr
t f h ft fboth bo f 1g 46
T gu R du nt atm t fc c of muth 3 7 3 8
5 7 radi m d g ry1 c f 318 greal

great tm nt of in ma of 3 9 malign tt mors f

d gest t t 339
To il Mix d ha cre of 7 g d l d th rmy d truc t ff c l 7 l ton of t s!! c techniq ft ill ctomy 5 8 Tortic ll Op rat for sp m d c 59 pathology f

g tal 62

T che Prim ry oma of

h ma da tam oas s dl b gope t f p imonary emb i m po ema hi ; m Pyr oth py with n Urugu y

T ch mo s aginal \ gint det fl rihoe 45 in p egn tw ma 448 Trig minal ralgia Su g ry f ymp thet c nervo s ys

tm 34 Hitlich qensz

Trop 1 pru 77
T b 1 ky 1 t b 1 p t nt 4 8 clm t
te tme t f u g c 1 47 lymphade op thy 56 S 1 m fog s

Tmrs Ofg teellgops dmd 74 radiat mean fdiff t t gc tain tisof 83 l of rtain m th d ofge eral te tm t f p bl 384 Its in roe tge yth rapy in giant-cell 47 S I names of t m rs d g Twins D th f ft of 4

ULCERS O gin of neu t phi ft cal inject s Ulna Treatment of fractures of upper c t emity by activ ext ns on with the t 63 Uln nerve Lat ntis f 18

Uram a followigt f so of bl d 56 tr Reflexif cou fre t lith 25 cha gesp d ced by f gn body aft r eph e tomy 158 flect of de rv to of ren l pedu cl d U tr Reflex il inp det nofdilat ti of upper un ry tract bemu ph ctomy f c lc lo pye ephyr is in b l t l d plicato f d pel es 257 op rati s on solitary k dn ys d 366 phys p th l gy f ub-1 t d to fo cp 453 de erv t dd pl m tof forld ycolc 454

U tha Parau the 455 tr tm t of fist læ by int thor ctal myo haphy f l ator

Unary: t cePtp te258
Un ry tract Un ry lith 5 pedon ry p
t t 6 offect fd ry to no fre lpd 1 c
u t pmd t fdl tatto f pp 50 dy

lecta E t n graphy w th 548 Urugu y Py oth rapy with t eponem hi p icum

Ut ru Dp dence of m culature of f cto lph f ry 37 t f muscul t of du g m trual cyscle 37 acto of m c lat of d g m c lat of d g p g y ndp erp um a t 37 syphih f of 37 d lts of d l bdom l hyst ctomy f ce of cryl 138 bacter 12 re om faft rrad mth rapy 38 hist g d morph g es sof my m f 42 my m f 24 met t d mornhoc c f cryl of 24 p t stat of teatm t
fc m of cervar f 4 ope t nd rrad
t cace f 43 ft ffect f tra t
f p d cto f th l me op 46 ad m p d cto f the line op 46 ad m me orb ga d egul rhem h ge of 46 rup tue f d glbo 5 p modest f d the tatment 5 St md fplt rv to 6 354 bleed g ft m nopause ssgn fc c om f 354 deg feac om of 354 effect of c fleght stype metal nfecti f dg 354 m trut adı gul hxmo hageof of nnng 356 dltat feervix f u der splæsthes at term 36 cystic de m f f 44 d el pm t feac cal t mp after s bt tal hyst ctomy 44 g p rod cha gesi c rv f w th ef re cet c d l p me t 44 hæm h g f with r i cet malg t d 44 b moont funp ga cy449 t thee tof malaga cy 474 pedu 1 td thro cystof cervix f 536 r ta c of rvixof to ca cr in omplt p 1 p 1 536 p tp at es lts i m lp t f 336 entge co trol in rad m th nvol size conduct of the conductive for the conduct th py of 537 co-o din t of 1 I b 543
plete spont co s rupt f 1 I b foll
fist l of and bl dd 544

VACCINATION agan the it that gry fc lo

gr Venc v gm l fist l 46 f m t f art fic 1 c whhutrus was pet 355 gntal absence of 44 t chomon of in p eg twoma 448

Vaginitis due to trichomonas vaginalis as common cause of

leucorrheea 145 Varicose ulcers Treatment of 380 treatment of indolent

Varicose veins Injection treatment of 172 valvular defect in relation to 463

Vein Mechanism of action of ligation of in obliteration of artery 273

Veins Surgical and physiological value of arteriorenous anistomosis of con ential arteriorenous fistule 172 injection treatment of varicose 172 new method for reentgenography of in living 463 valvular defect in relation to varicosis 463

Venous pressure Value of measurin in course of artificial penumothorax 15

Vertebræ See Spine

Vesico uterine fistula resulting from spontaneous rupture of uterus in labor 544

Vesicovaginal fistula 146

Visual field Influence of pregnancy on 211 Vitreous body Nature of 314

WOUNDS Value of mechanophysiotherapy of 69 mechanophysiotherapy of 276 surgical treatment of recent accidents 276 pri many treatment of 467 results of essentially opera tive treatment of 467 rate of healin of electrosurg

Wrist De Quervain Oehlecker luxation fracture of 270 traumatic lesions of certain bones of 377

X RAY See Roentgen ray

### BIBLIOGRAPHY INDEX

SURGERY OF THE HEAD AND NECK.

Head 78 181 286 392 478 57 Epr 78 181 286 39 478 572 Ear 79 182 287 393 479 573 Nose and Sinuses 79 182 287 393 479 573 Mouth & 183 288 394 480 574 Pharynx 80 183 288 394 480 574 Neck 81 183 288 394 480 574

### SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverin 8 82 184 289 395 481 575 Spinal Cord and Its Coverings 82 184 90 306 481 576 Peripheral Nerves 83 185 200 306 482 576 Sympathetic Nerves 83 185 200 306 482 576 Miscellaneous 83 185 200 306 482 576

### SURGERY OF THE CHEST

Chest Wall and Breast 83 185 291 397 482 576 Trachea Lungs and Pleura 83 186 291 397 482 577 Heart and Percardum 84 186 292 398 485 578 Geophagus and Mediastinum 84 186 292 398 483 578 Miscellaneous 85 187 292 399 483 578

### SURGERY OF THE ABDOMEN

Abdominal Wall and Peritoneum 85 187 9 399 483 578 Gastro Intestinal Tract 85 187 293 399 484 578 Liver Call Bladder Pancreas and Spieen 87 190 295

402 486 581 Miscellaneous 89 190 296 402 487 581

Miscellaneous oo 103 208 404 489 583

### GYNECOLOGY

Uterus 89 101 296 403 487 582 Adnexal and Perinterine Conditions 90 192 297 403 488 582 External Genitalia 90 192 298 404 489 583

### OBSTETRICS

Pregnancy and Its Complications 91 194 299 405 490 584

Labor and Its Complications 92 195 300 406 492 585 Puerperium and Its Complications 93 196 301 406 493 586

Newborn 93 196 301 406 493 586 Miscellaneous 93 197 301 406 493 586

### GENITO URINARY SURGERY

Adrenal Kidney and Ureter 94 197 302 407 494 586 Bladder Urethra and Penis 95 198 303 408 495 587 Genital Organs 95 199 303 408 495 588 Miscellaneous 96 199 303 408 496 588

SUBJECT OF THE BONES JOINTS MUSICIES TEXPONS
CONDITIONS Of the Bones Joints Muscles Tendons Etc 96 200 304 409 405 588
Surgery of the Bones Joints Muscles Tendons Etc 98 201 306 410 498 509
Fracture and Dislocations 98 202 306 411 499 590
Orthopedies in General 90 307 411 409 590

### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessel 90 203 307 411 500 502 Blood Transfusion 90 203 307 412 500 502 Reticulo Endothelial System 308 412 500 Lymph Glands and Lymphatic Vessels 100 204 308 412 501 50 Miscellaneous 204

### SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treat ment 100 204 308 412 507 502 Antiseptic Surgery Treatment of Wounds and Infections 101 204 308 413 507 503 Anasthesia 101 205 309 4 3 502 503 Surgical Instruments and Apparatus 101 206 309 414 502 504

### Physicochemical Methods in Surgery

Roentgenology 102 206 310 414 502 594 Radium 102 206 310 414 502 594 Miscellaneous 102 206 310 4 4 502 594

#### MISCELLANEOUS

### AUTHOR INDEX

Aaron A H 364 Aheshouse B S 258 Abud 452
Aburel E 42
Ackman F D 24
Acton H W 285
Adair F E 570
Adelstein L J 216
Ad on A W 57 220 Ad on A W 57 220
Adumada 454
Akerson I B 555
Alajouanne T 324
Albanese r44
Albert O 444
Albert O 444
Albo M 278
Albunda V 278
Albunda W 272
Allen A W 272
Allen A W 272
Allen D S 430
Allende C I 530
Allende C I 530
Allana G 466
Alvarer W C 27
Amborson J B Jr 22
Ammon E von 44
Amorosi 427 Ammon E von 44 Amorosi 0 533 Amy P 22 Andre-Thomas 277 Anselmino K J 447 Anselmino B J 420 Antonelli A 534 Apostoleano E 69 Armour J 342 Armour J C 436 Ask Upmark E 456 A selun J 347 Ask Upmark E 456 A selin J 347 Asti M L 280 Aubin A 316 Auche J 465 Audehert J L 544 Aufses A H 349 Auston: 31 Izerad 214

Baccarnii L 550
Baer M 335
Bagg H J 570
Baenoli N 551 Bailey H 238
Bailey P 511
Balfour D C 129 Ballin M 565 Bancroft F W 20 Barbaro 318 Barbellon P 160
Barclay A E 320
Bargen J A 27 345 529
Barkan H 313
Barkan O 3 3
Barringer B S 551
Bastengell B S 551 Bastianelli R 528

Babes 40

Baumgartner E A 177 Bazin A T 68 Beck C S ri Begouin 38 Behney C A 249 Benney C A 249
Bejarano 390
Benedict E B 209
Bennett G A 257
Bensaude R 438
B rard 214 356 376
Berard L 25
Berceanu 174
Benn A 726 Bernard L 25
Berceam 174
Berg A A 340
Bernard R 330
Bernard R 335
Bernard R 335
Bernard R 335
Bernard R 335
Bernard R 336
Bernard R 336
Bernard R 336
Bernard R 337
Bernard R 337
Bernard R 337
Bernard R 337
Bernard R 337
Bernard R 337
Bernard R 347
Bernard R 447
Bernar Bonnahon J 419 Bonney V 442 Bonney V 442
Bonormo Udaondo C 435
Bonta M B 238
Boon Itt S B 788
Bowen B D 236
Bowen J A 257
Branach W F 115
Bra and K 765
Bra and K 765
Branach B 14
Brandstup E 250
Brane It A 372
Brentrall C G 284
Bruer I 564
Brill S 222

Brindeau 153 Brindeau 153 Brouch P 236 Brouha M 43 153 Brown A 8 427 Brown P K 222 Brown R C 251 Brown R G 213 Brown T G 435 Brown T K 153 Brown D 125 Bru eas 125 Bru eas 325
Brum A 74
Brunn H 2 2
Bucy P C 511
Bumm 56r Bumm 56r
Bumpus H C Jr 156
Bundschuh E 432
Burden V G 728
Burden V G 728
Burger P 252
Burget G E 229
Busch W 1755
Busser F 366
Buzonam G 5
Byd H 317
Byd W 317 Cahot H 565
Cade S 28
Cadham F T 570
Caffier P 542
Cau A 438
Calve J 556
Camp J D 22
Campbell M F 255
Cannon D J 4
Cantarov A 154
Cappell L 285
389
Carott J B 370
Catherwood A E 242
Cecl R L 555
Centu G 519
Cettom M B 146
Chahrut R 127
Charbonnel 269
Charmer 269
Charmer 269 Charrier 269 Chatfield M 566 Chatfield M 566 Chavun E 550 Chavany J A 227 Chestle Str G L 569 Chestle Str L 22 Cheever D 27 Christopher F 63 Christopher F 63 Clark C P 210 Clayed C 364 Clemente D 544 Clutte H M 8 Codman E A 555

Coffey R C 48
Coffey W B 179
Cohen M 106
Coleman C C 11
Coley W B 456
Collins E T 517
Collip J B 541
Comfort M W 524 Condamin R. 247 Contargyris A 459 Contargyris A 459 Copeland M M 52 Cordes E 54 Cornil L 247 Cornel L 247
Coryllos P N 3 9
Cotte 245 257
Coryllos P N 3 9
Cotte 245 257
Courville C B 216
Craver L F 19
Crile G W 474
Crousat 336
Crothers B 10
Cultor I S2
Culler A M 26
Cumberbatch E P 508
Curtis G M 321
Curtis C M 341
Curtis C Daonino A 437 Dall Acqua V 25 Dall Acqua V' 25
Dalsace 44 25
Dandy W 25
Danict W C 153
Dannelspolu D 118 426
Dannelseser F 23
Danneuser W 7 148
D Aunoy R 131 265 328
Davis L 323
Davis L 323
Davis L 323
Davis C 724
Davison T C 336
Deaver J B 138 134 347
Debenedeth E 14
DeCourcy C 29 DeCourcy C 29 DeD iembowski S 384 DeKeersmaccker 160 Deheersmaccher 100
Delagen ere Y 510
Delherm L r2
Delvaux F 536
DeWartel T 226 466
Demelin L A 43
DeWello C 213
Denechau D 25
Denk W 337
DeOuervan F 281
DeSAr 2 284

DeSèze S 384

Desjardins A U 283 567

Codman E A 555

De l'akát G 39 563 D To G 330 D W H 78 D H II 76 D II ng W J 52 D I L 387 D Ist A 6 Do C \ 6 Duff D 7
Duff D 7
Duff J J 6
I b m 1 l L 09 4
D k Fld W S 3 4
D l p D M 436 D t 440

Id cml k 545 Idigto GH 349 Igg t AA 3 tra G 41 Fhh dt k 43

J d l b g J 9

Flr 7

Em J 84

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Fabr nt P D 48 f blb h O 43 F hlb h U 43
F t R G F ( 34
Fauley G B S
F y T 3 5
F c L 9
F ldma M 35
F l 1 1 467
F lte K h 3 7
F gus n A B 458 Fe o Di z L M 545 Fè M 558
Fè S N 76
Fg: FA 20
Finl y C I 1
Funn y J M T 18

Finance V 54 Fich E M 43 Fick J B 24 Tick J B 24
Toc te O 55
I nt R 77 73
I nt A R 77 73
I nt A R 77 73
I nt A R 77 73
I nt A R 77 73
I nt R 77 73
I nt R 77 73
I nt R 77
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I n Foe te O S S

F k E II 333 C bn 1 W B 53

C bn I W B 53
( I M 343
( I M 345
( I M 545
(

GI TM A 39 GO TM A 39

Gene PI 500 Glity Bo i P 5 Grri M 153 Granda J 1 74 3/8 Cu ly I 560
G erry L C 38
G gg b g II 72
Gub I 61 Guld SR 2 G Han G 384 G Haum J 460 G 1 c J 52 Gw thmey J T 43

Han CD 5 8 H berer H n 341 Hade feldt H 174 Hag I W 2 d W D 26 Па, t m Г 126 П g er I R 552 П S Г 421 | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | Ila pt | I

Hickm L 31 437
Hill D S 36
Hill na ni H 354
Hi ch I S 48
Hi chma L J 53
Hi fima F L 474 If fima F. L. 474
If fi an F. 447
If fi an F. 447
If fi an F. 447
If fi and W. W. 34
If Im. 1. 2
If alth S. 314
If orsdey J. S. 30
If orsten gg W. A. 77 II ry tz W 1 24 Hubste C 2 Huc C 68 Humb r J D 70
Hum J B 563
Hum r C L 3 7
Hunt I L 434
Hyma \ 49

Iasu | II 3 Intr | S 537 Isaa K 381 1vy 1 C 3 29 234 42 543

k m ka k 4/3 K mi r G 399 Kap 1 () 543 Kt ya 5 4 F fm n 1 29 K I 1 147 Ke IPIC's Kempf G I 3 Ke d II A I t ke dyk II 46 K m u 1 36 K e Sam rn S 75 hesch W 28 Ky J V 53 K W n W V 8 Kml rog t R \ 47
Kmg I J S 53
F g L S J 234
K I v W B 54
K chi cf H 338

Kikin B R 47

Kirschner M 175 kleegman S J 145 kleine H O 175 Knoflach J G 240 knorr M 279 koff A k 143 konjetzny G L 3 Konrich 385 Kontsek B 153 Kortzeborn A 12 Koster H 71 Kovács F 355 Kraft R 276 Kramer R 17 Kreitmayer M L 246 Kretschmer H L 49 366

549 Krukenberg H 254 Kuncz A 358 Kutzmann A A 260

Labbe 214 Lacassa ne 28 Lacassa ne 28
Lacey J T 20
Ladd W E 352
La Haye P 449
Lahey F H 138 233
Lambert V 212
Lambin P 282 Lambing A 438 Lambranzi M 331 Lambrann M 331 Maduro R 316
Lange F 58
Lange B 58
Lange M 64
Lamore J W 346
Lassery M 466
Lassery M 466
Lassery M 466
Lavers M 46
Lavers M 52
Lavers M 52
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Lavers M Le Coq 7 Leddy E T 372 Lederer M 13 561 Lee B J 328 517 Leemans G 558 Le Fur 255 Lehmann J 367 Leibholz E 66 Le Lorier 449 Lemaire A 275 Lemeland 446 Le Mesurier A B 20 Lenz M 518 Léon kindberg M 16 Lepoutre C 45 Lenche R 177 273 472 Lerman J 123 Leroux Pobert 211 Leshin N 508 Le Souel L E 28 Le Souef L E 28
L Esperance E S 464
L Eucutia T 274
Leuctenegger C J 156
Leveuf J 3 5
Levine I 106
Le Wald L T 433

Lewis D 172 Lewis E R 213 Lewis W 508 Lichtenberg A von 45 Lièvre A J 554 Lihenthal H 334 Lindau A 511
Lindau A 511
Lindau A 511
Lindsko G E 329
Link k H 390
Lino G 365
Lira 452
Lisa J R 434
Littlejohn C W B 371
Ljung ren E 157
Lyachart Mummery J P Lockhart Mummery J P

Loeper M 275 Lo Grasso H 167 Lonjon P 218 Lórenzetti C 461 Loring M 132 Lower W E 146 Lozzi V 452 Lucarelli G 452 Luquet G 24

Macaigne M 66 Mack H C 150 242 Mackey W A 157 548 Macmillan A 5 520 Maduro R 316 Ma lulo A 262 370 38 Marano M 366 Martindale L 517
Martin T 525
Marteloff L 229
Mascherpa F 424
Mason J B 74
Massart R 52 58 64 556
Masson P 447
Mathe C P 46
Mathew P 21 59
Matthews H B 249
Mayer F 21 Matthews H D 249 Mayer E 321 Mayer L 557 Mayo W J 473 McCallum G 349 McCrae T 333 McGlannan A 328 McKenna H 271
McKenzie D 107 419
McKim L H 375
McKittrick L S 66 McLachlan D G S 30 McLean J A 273 McMichael J 238 McPhail M K 541 McPheeters H O 172 Meagher R 511 Meaker S R 540 Meigs J V 209

Meleney F L 523 566 Meltzer P E 506 Melzner E 468 Meurman Y 3 4 Meyer J 1 345
Meyer J L 354
Meyer R 39 443 538
Meyer S 541
Meyerdding H W 457
Michon L 361 444
Middleton D S 262 Miescher G 387 Mi intac G 236 Migliavacca A 537 Miller R H 137 Miller S R 351 Miller T G 2 8 436 Mill L 1
Mintz W 222
Mitchell T C 436
Mock H E 423 Mock H E 423
Moen E 127
Mollan R 160
Mollard H 223
Moncneff A 178
Monod R 16
Monroe R T 526
Montgomery T L 154
Moore R T 106
Mora J M 509
Morel Kabn M 12
Mor 50n J M V 26 Mor son J M W 36 Morone G 30 Morozzi A 550 Morozzi A 550
Morris L 513
Morrison L B 27
Motrison T H 34
Morse P F 565
Mortion C B 53
Mortion J J 219
Morton S A 470
Moschow tz E 107
Mosniger M 247
Mouzon J 33
Muller P 536
Munoz 452 Munoz 452 Murard J 23 Murphy G T 31 Naeslund J 474 Napalkos P 20

Napalkos P 20
Nash C S 3
Naujoks H 389
Neal M I 3 7
Negus V E 422
Vehrkorn 431
Nel on H P 428
Nelson P A 508
Nicaud P 66
Nicholls E E 555
Nicolaysen I 563 Nicolaysen J 563 Nicolaysen K 563 | Nicolaysen a y y | Nicolaysen f | Nicota r 64 | Nordinad M | r 08 | North J P 34 | Pomeranz M M r Noval E 123 | Pomeranz M M r Nove-Josserand 371 | Pomeranz D 548 | Pomeranz M M r Nicomberger L 388 542 | Pomera 57 | Pomera 17 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pomera 18 | Pome

O'Brien E J 331 Ochsner A 344
Octel H 75 251
Octile T 169
Ogilve W H 239
Olmsted J M D 566
Oppel V 214
Orbach L 222
Orban F 462
Ordolf B H 234
Orton S T 500
Ostergaard C L 371
Overholf R H 256
Oxley W H F 362 446 Ochsner A 344

Pack G T 284 517 Palmer B M 313 Palmer D L 137 Pancoast H k 10 334 Pankow O 546 Pantz Lazarescu 40
Pap L 165
Papin F 17
Paradis J 50
Patjaktaronic S 241 Patker M L 345
Patker W R 2
Parmenter F J 156 Parmenter F J
Parry L D 518
Patch F S 338
Patcy D H 10,
Paton L 217
Pauchet V 24
Paucot H 36
Parra I 478 Paucot ii 30
Pavia L 418
Payne R L 140
Peabody C W 460
Iearlman S J 508
Pechham C H 446 Peham H 152 Pemberton J deJ 421 Perla D 276 Perotti D 210 Perrotti G 34 265 Peris 447 Petit Dutaillis D 148 324 Petridis P 35 Petridis P 35
Peycelon 2 4
Pfahler G E 107 518
Pfiffner J J 547
Phemi ter D B 26 570
Phillips L W 330
Ptekarska 536
Pteraccini P 158 452 453
Peri G 220 324 367
Ptetration L D
P nwn J R 441 P nsan J R 441 Pinsan R 361 Pitzen P 60 Pla J C 278 Platt H 54

Ploos Van Amstel P I DeB 21

Poelchen 63 Polayes S H 561 Pomeranz M M 162

P ynt F J 78 Ru J B 60
P t 342 Rutle fo d R 39
Prat D 34 Pycroft B W 06
Lratt T C 166

| Sol D 377 | Ude W I | So I 110 | Urdan II | So V L 127 | Uzac, 157

Ude W II 16 Urdan I E 15

kanagizawa H 463 koun A 269 koung H H 159 koung J 356 Zalewski F 72 Zanardi F 67 Zanoli R 371 Zerfas L G 113 Ziegler J M 276 Zoeller A 131 Zondek B 150 Zubrzycki J 355 Zweifel E 242 354  Zerfas L G 113 Ziegler J M 276 Zoeller A 131 Zondek B 150 Zubrzycki J 355 Zweifel E 242 354